



Colony of Fiji

COUNCIL PAPER No. 26.

ANNUAL REPORT

OF THE

MEDICAL DEPARTMENT

FOR THE YEAR

1954



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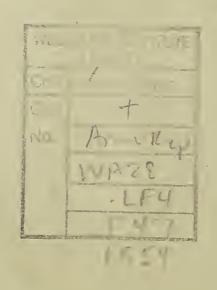
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LEGISLATIVE COUNCIL FIJI

COUNCIL PAPER No. 26.

MEDICAL DEPARTMENT

(ANNUAL REPORT FOR 1954.)

ADMINISTRATION

ESTABLISHMENT AND STAFF

MEDICAL DIRECTORATE

THE Departmental Establishment is shown at Appendix I to this Report.

Dr. J. M. Cruikshank, C.M.G., O.B.E., Director of Medical Services, Fiji (also Inspector-General, South Pacific Health Service), and Dr. R. W. D. Maxwell, Deputy Director of Medical Services, continued their substantive duties throughout the year.

2. Senior Staff Changes—Appointments, Transfers, etc.:—

Dr. L. G. Poole, Tuberculosis Control Officer, returned from leave on 9th March.

Dr. C. H. Gurd, appointed Physician Specialist on transfer from Nyasaland.

Dr. K. J. Gilchrist, Surgeon Specialist seconded to the Central Medical School for special

Mr. R. I. Cohen, appointed acting Surgeon Specialist.

Dr. K. H. Black, Medical Officer, transferred to Hong Kong.

Dr. H. W. Conran on leave successfully completed studies leading to a Diploma in Psychological Medicine.

Dr. H. E. Knowles on leave for studies in radiology.

Dr. T. A. Doran, Acting Principal, Central Medical School, left the Colony on completion of agreement.

Dr. A. R. Edmonds, appointed Acting Principal, Central Medical School.

Mr. R. B. Fyfe, promoted to Chief Health Inspector. Mr. A. N. Caldwell, promoted to Health Instructor.

Miss J. Sinclair, Nursing Superintendent, proceeded on pre-retirement leave on 1st January, 1954.

Miss A. E. Storck, Principal Central Nursing School, promoted to Nursing Superintendent. Miss M. Paton, appointed Principal, Central Nursing School.

LEGISLATION

3. Legislation of medical interest enacted was as follows:—

1954 Legal Notice No. 4, making Levuka a Port of Entry.

Ordinance 4, amending provisions as to quorum of a local authority. Ordinance 5, amending Town Planning Ordinance.

Ordinance 9, amending weights of bread.

Ordinance 15, Essential Services (Arbitration) Ordinance, 1954.

Legal Notice No. 74, amending Public Health (Aerated Water, Ice and Ice Cream) Regulations.

Legal Notice No. 75, amending Public Health (Eating House) Regulations.

Legal Notice No. 77, amending Pharmacy and Poisons Ordinance.

Legal Notice No. 104, Public Health (Hairdressers and Chiropodists) Regulations, 1954.

FINANCE

4. Expenditure for year 1954—General District and Special Hospitals:—

					£	s.	d.
Salaries of Medical Officers					15,093	3	10
" Assistant Medical	Practiti	ioners			12,903	2	6
,, Laboratory Staff					6,270		0
" Nursing Staff					42,315		5
,, X-ray Štaff	• •				2,670		0
" · Clerical Staff .		• •			6,181		0
,, Dental Staff .					3,945		0
Wages of Subordinate Staff					44,964		9
Rations and Stores						12	1
Power, Heat, Light, Water a	and Refr	rigerat	ion	• • .	18,780	12	9
X-ray Services	• •				1,909		2
Laundry				• •	10,997		1
Workshop					20		1
General Maintenance and In		s.			1,806		8
Hospital paupers burials					75		0
Drugs, Instruments and App						16	1
Clothing, Bedding and Equi	pment	• •		• •	7,947	6	3

5. Expenditure for the year 1954—Rural Hospitals and Dispensaries:—

•	•		•	•	£	s.	d.
Salaries of	Medical Officers			 	3,461	0	0
,,	Assistant Medical	Practi	tioners	 	33,139	1	8
,,	Nursing Staff			 	30,782	12	0
	Clerical Staff.			 	660	0	0
Wages of S	Subordinate Staff			 	11,763	18	4
Rations an	d Stores			 	10,919	16	0
General U	okeep and Mainten	ance		 	769	15	3
	paupers burials			 	19	19	0
Drugs, Ins	truments and appl	iances		 	8,333	15	6
Clothing, I	Bedding and Equip	ment		 	1,551	6	1

£101,401 3 10

6. Medical Stores and Equipment: Value of Issues to nearest £:-

	Drugs & In	struments.	Clothing an	d Bedding.	TOTAL -
	Total £	Ave.	Total £	Ave. £	£
5 General Hospitals	22,424	4,485	5,331 ·	1,066	27,755
3 Special Hospitals	 7,886	2,629	2,617	872	10,503
14 Rural Hospitals	 4,541	324	1,435	187	5,976
48 Rural Dispensaries	 3,793	79	116	2	3,909
11 Health Sisters	 1,567	142	269	24	1,836
108 Assistant Nurses	 2,336	22	186	2	2,522
4 Religious Missions	 50	13			50
Other Medical	 177		151		328
*Other Departments	 856		155		1,011
Private Accounts	 154				154
Cash Sales	 39		• • • • •		39
Totals	 £43,823 .	• • • •	£10,260		£54,083

^{*}Includes drugs and replenishment of First Aid boxes at Public Works and Forestry Stations and Education Department schools.

7. Revenue and Expenditure of the Department:—

		1952	1953	1954
Gross Expenditure		£631,676	£655,575	£683,322
Revenue		59,275	76,926	71,043
Nett Expenditure		572,401	578,649	612,279
Percentage of Colony's	Expenditur	e 13 per cent	13 per cent	13 per cent
Expenditure per head	of -			•
population		36s. 7d.	38s. 8d.	36. 9d.

The following table shows the expenditure on Medical and Health Services per head of the population, over the past 17 years.

				Total	Expen	
Year				Population	per l	nead
1936			 	 201,086	8s.	1d.
1939		*. •	 	 215,030	10s.	7d.
1942			 	 233,895	10s.	1d.
1944	• •		 	 246,485	12s.	1d.
1945			 	 254,676	14s.	2d.
1946			 	 260,468	16s.	6d.
1947			 	 269,274	20s.	8d.
1948			 	 277,372	24s.	4d.
1949	• •		 	 284,955	25s.	0d.
1950			 	 293,764	27s.	2d.
1951			 	 301,959	32s.	10d.
1952			 	 312,678	36s.	7d.
1953			 	 320,801	38s.	8d.
1954			 	 333,389	36s.	9d.

COLONIAL DEVELOPMENT AND WELFARE PROJECTS

- 8. Suva Medical Centre The new Central Medical School building which was opened by Her Majesty the Queen in December, 1953, and those buildings comprising the new Central Nursing School and Hostel were occupied late in 1954. In addition there remain to be constructed the new maternity and out-patients departments. Funds to cover the cost of the expansion of these training and treatment institutions were a free grant of £F240,000 from the United Kingdom Government as part of its Colonial Development and Welfare Scheme. Details concerning the Central Medical School are contained in the Appendix XIV (a).
- 9. Tuberculosis Survey—United Kingdom Colonial Development and Welfare funds were available for the tuberculosis survey during the period 1949 to 1953. Since January 1954 the tuberculosis survey and control measures have been undertaken from Colony funds. Details are contained in Appendix VI.

- 10. Central Medical Research Library—This library was created by a grant of £4,051 from United Kingdom Colonial Development and Welfare Fund. It was taken over by the Fiji Government as a departmental function in 1951. A representative collection of text-books and reference books on medicine, health, research and allied subjects has been acquired. A mimeograph and micro-film projector also form part of the equipment. The library has proved very popular and is in constant use by medical department staff, students and private practitioners.
- 11. Filariasis Investigations—A grant was received in 1953 from the Colonial Development and Welfare Fund to conduct further research concerning the transmission of filariasis and the use of modern insecticides as an additional means of controlling the mosquito vectors. These investigations were commenced in January, 1954 by Mr. C. B. Symes, O.B.E., an officer of Her Majesty's Oversea Research Service.
- 12. Studies of representative areas of Viti Levu continued during the year and have now been extended to other islands. The essential aim of these preliminary studies is to determine what species of mosquitoes, if any, other than the Aedes pseudo-scutellaris Polynesiensis complex, are concerned in the transmission of human filariasis (W. bancrofti).
- 13. Results of micro-filarial examinations of wild mosquitoes caught in bush and in houses, and of laboratory infection of bred mosquitoes confirm the role of the Aedes pseudo-scutellaris Polynesiensis group, and indicate also that at least two other species—Aedes fijiensis and Culex fatigans are seriously concerned. These bite essentially in houses in the late evening and at night and large numbers remain in houses after their feed. This exposes them to possible chemical treatment of houses as a supplement to abolition of breeding grounds, where necessary. Other species have yet to receive adequate investigation. In the course of studies of micro-filariae in the blood of infected people, observations are being made in co-operation with the Physician Specialist on "periodicity" of the micro-filariae and on the effect of Hetrazan on numbers of peripheral micro-filariae. In this respect, our quite inadequate data seem to confirm previous work in the South West Pacific that there is no "periodicity", and that the administration of Hetrazan leaves a considerable proportion of those treated, with low densities of micro-filariae, that may well be sufficient to infect some species of mosquitoes.

INTERNATIONAL AGENCIES

- 14. Yaws Control—During the year the Fiji Government entered into an agreement with the World Health Organisation and United Nations Children's Fund whereby assistance would be forthcoming from these two organizations to eradicate yaws as a public health problem. Dr. F. Tross, World Health Organization Yaws Field Officer and Dr. M. J. Whelan, Serologist arrived in November to augment the medical department staff. A plan of operations has been prepared and arrangements have been completed for a pilot serological survey and the mass treatment programme to commence in January, 1955. The supplies of penicillin, additional laboratory and field equipment have already been received. Dr. W. L. I. Verier is medical Officer-in-Charge of the Yaws Control Programme.
- 15. Central Medical School—Agreement has been reached between the Fiji Government and the World Health Organization whereby this organization will provide two lecturers to teach Biology, Biochemistry and Physiology in the Central Medical School. These lecturers are due to arrive in February, 1955. The World Health Organization has also provided funds for additional teaching equipment.

DEPARTMENTAL RESEARCH

FILARIASIS

- 16. A report of the filariasis survey which convered the 10 year period from 1944 to 1954 has been completed and is now being edited. It records the findings of investigations of filariasis and micro-filariae in the blood in a representative portion of the Fijian population. Clinical manifestations of filariasis, elephantiasis, lymphatic nodules and history of filarial fever are also included in the report.
- 17. The data presented in this report concerns 1,049 villages and 51 schools located in 83 districts in the Fiji archipelago. It has entailed the clinical and blood examination of over 70,000 Fijians of all ages and both sexes.
- 18. As the Aedes pseudo-scutellaris which is regarded as the principal vector of filariasis in Fiji, does not usually rest within houses, but shelters in bush in or around villages, the inhabitants are exposed to infection when visiting their gardens or when entering the bush for any other pupose. If bush exists in the village, or is sufficiently near, they may be infected in the village itself. When the filariasis survey was initiated, a programme of bush clearing around the perimeter of villages was instituted, and has been quite well maintained. To ascertain whether this alone has reduced the incidence of micro-filariae, pilot blood re-surveys of the inhabitants in many villages have been conducted, approximately five years after each initial survey. During these intervals a new population up to five years of age has been born, the micro-filariae rate of whom can be compared with that of the corresponding age group at the time of the initial survey.
- 19. During the past two years controlled experiments in the use of Hetrazan in the treatment and control of filariasis have been undertaken in selected villages. The results of Hetrazan therapy as a control measure are at Appendix XII.
- 20. The activities of the Fiji Medical Department which have now been recorded in this report induced the Secretary of State to grant Colonial Development and Welfare funds for further fundamental research regarding other possible mosquito vectors and to provide an enquiry into the practicability of using insecticides as a further control measure. These investigations were commenced in 1954 by Mr. C. B. Symes, O.B.E., of Her Majesty's Oversea Research Service.

DEMOGRAPHY

- 21. Dr. W. L. I. Verrier is continuing his investigations into the demography of Fijians, and has developed novel methods of indexing persons in a community of mixed races These methods are now being used in the Tuberculosis and Leprosy Registers, and are being brought into use in other divisions of the Department.
- 22. Demographic Survey of Rotuma. During the years 1937/51, the Crude Birth Rates for Fijians, Indians, and Rotumans, have been recorded respectively as on the average 36, 41 and 43. It is not known whether the surprisingly high figure for Rotuma reflects the real position, and if it does, what are the factors involved. Accordingly Government invited the Fiji Society to sponsor an investigation in this field, and provided a sum of £100 for expenses. The society asked Dr. Verrier to undertake this research, which is now in progress.

PUBLIC HEALTH

GENERAL REMARKS

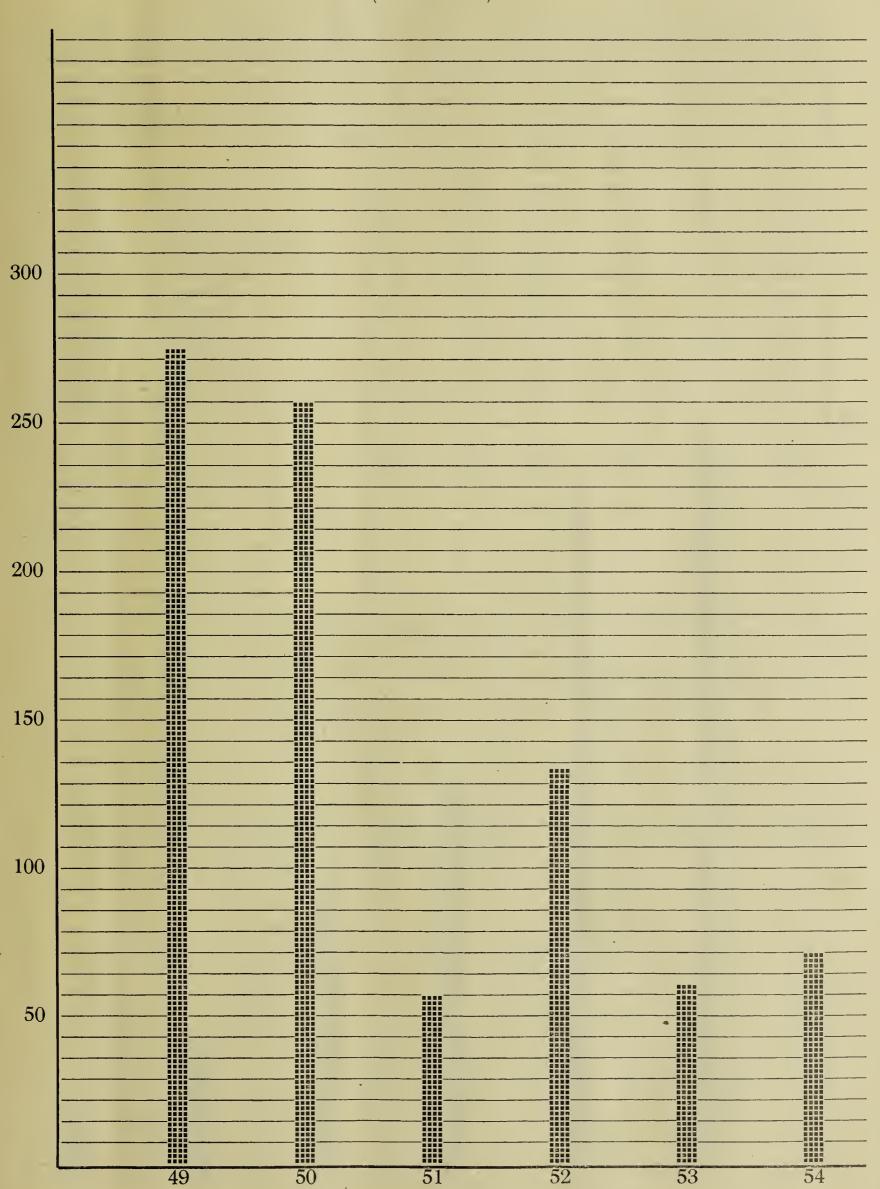
- 23. The Director of Medical Services is Chairman of the Central Board of Health which controls and co-ordinates public health activities throughout the Colony.
- 24. There are 22 Local Health Authorities constituted under the Public Health Ordinance (1936) whose duties are concerned with carrying into effect this Ordinance and Regulations made thereunder. The Local Authorities also take charge of the local aspects of Town Planning and Sub-division of lands in their own areas.
- 25. Each District Medical Officer in the four districts into which the Colony is divided for administrative purposes is a Medical Officer of Health to the Local Authorities within his District; and in this capacity he is assisted by a trained staff of Health Inspectors, Health Sisters, Assistant Health Inspectors, Assistant Nurses, and other junior staff.
- 26. The Colony is divided into 48 areas each having an Assistant Medical Practitioner at a Rural Hospital or Rural Dispensary. He is responsible to his Medical Officer of Health in matters of communicable diseases. Each of the four Administrative Districts forwards to headquarters a weekly statement of the incidence of notifiable infectious diseases within its boundaries. Guidance is then given when needed by headquarters so that preventive or controlling measures may be as thorough as possible.
- 27. Fiji as a participating member of the South Pacific Health Service takes part in the monthly telegraphic exchange of epidemiological information among territories concerned.

COMMUNICABLE DISEASES

- 28. General tables of the incidence of these diseases are given at Appendix II to this Report.
- 29. Influenza—An extensive outbreak of influenza commenced during the latter part of 1953 and reached its peak about June of 1954. The mortality rate was negligible but the number of cases notified was 8,496, approximately twice the number of cases notified during 1953.
- 30. Enteric group of diseases—The continued reduction of notifications in this group is attributed to perseverence in the anti-typhoid inoculation programme and improvements in rural sanitation. Twelve cases of typhoid and one case of para-typhoid were notified.
- 31. Dysentery—Amoebic dysentery is not included in the above group but remains more or less constant at approximately 25 cases notified each year. These represent cases in which the diagnosis has been confirmed by laboratory findings. The incidence of the other dysenteries is practically the same as for last year.
- 32. Infantile diarrhoea—No explosive outbreak of this condition occurred during the year. 934 cases among Fijians and 419 cases among Indians were reported. The total number notified was 1,527 compared with 2,197 in the previous year.
- 33. Pertussis—The number of cases of pertussis notified was 422 compared with 245 in 1953. Fijians and Indians contributed most of these cases.
- 34. Yaws—This disease was removed from the notifiable list some years ago but during the last quarter of 1953 it was again made notifiable, so that a correlation could be made between the number of cases notified and the records of clinical cases which will be recorded when the yaws mass treatment programme is undertaken in 1955. Cases of active yaws are seldom seen in the built-up areas; however, in the country areas, especially those which are difficult of access the disease is still very prevalent. The initial stage of the yaws control programme will include pilot serological projects to reveal the proportion of active and latent cases of this disease. The mass treatment programme which will commence in 1955 will employ five field teams to cover every village on all the islands. Penicillin in the form of PAM to World Health Organization specification will be used. Yaws is also referrred to under the heading International Agencies.
- 35. Tuberculosis—The number of new cases notified during the past three years has remained in the vicinity of 489. A rise in new cases to 667 notified in 1954, is attributed to an improvement in case finding. See also Appendix VI.
- 36. Hookworm—Although the number of cases notified remains low at 380, the majority of these cases have been confirmed by laboratory examination. The programme of encouraging proper pit-latrines with concrete slabs in rural areas is continuing, but undoubtedly the prevalence of this infection is widespread.
- 37. Dengue Fever—During 1954, 72 cases were notified compared with 60 in 1953. The notifications of this disease have declined generally since 1949 when approximately 250 cases were notified. The Aedes aegypti mosquito which is the vector of this disease is found in small numbers in Fijian villages but it is still prevalent in built-up areas.

DENGUE FEVER 1949-1954

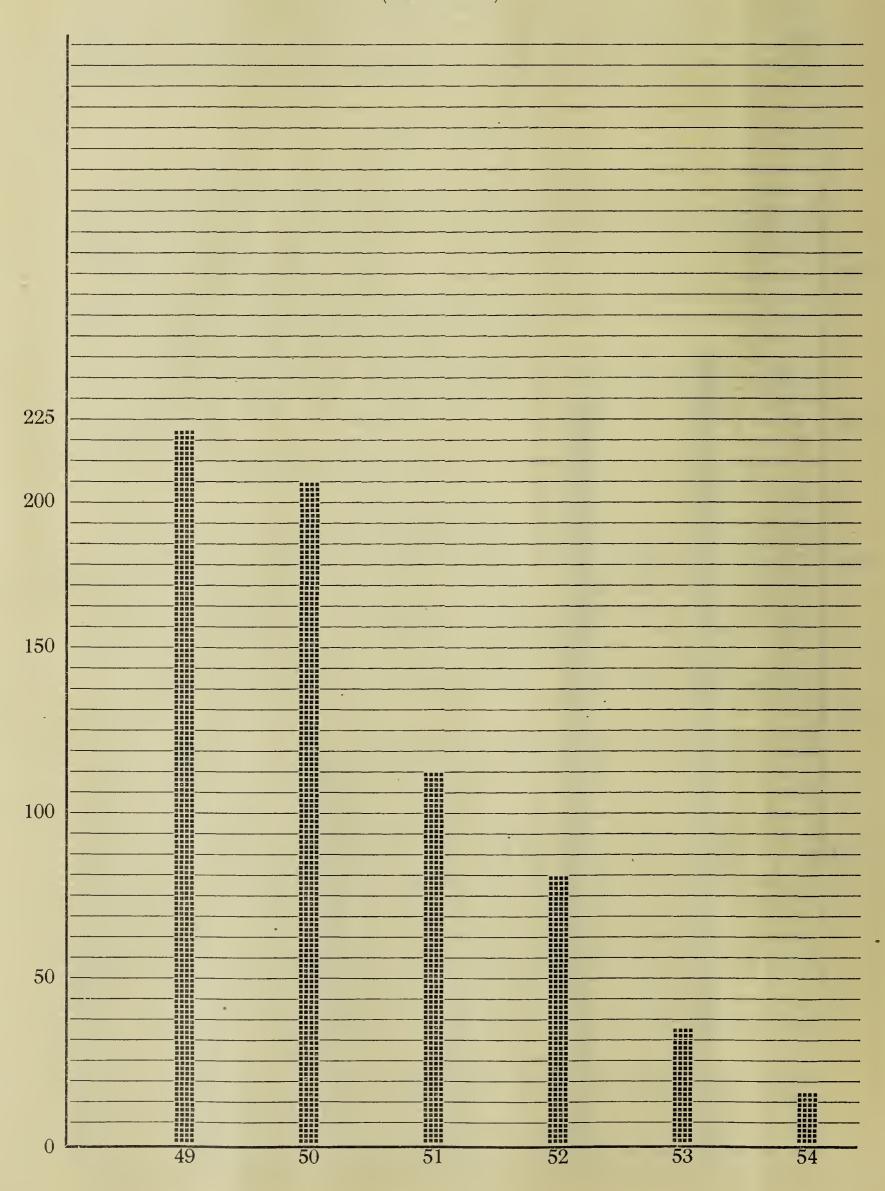
(Cases Notified)



ENTERIC FEVERS

1949-1954

(Cases Notified)



- 38. Venereal Diseases—Although venereal diseases do not constitute a major public health problem, 211 cases of gonorrhoea notified during 1954 was approximately the same as for 1952 and 1953. Twelve cases of syphilis were reported as against 23 cases in 1953. More information is contained at Appendix III
- 39. Leprosy—New cases of this disease were 40 in 1953 and 26 in 1954. It is hoped that the decline in the number of new cases of leprosy will continue. Details are contained in Appendix VI.
- 40. Tetanus—The notifications of this disease remain more or less constant between 30 and 50 cases per year. Arrangements have been made to conduct an extensive inoculation campaign in 1955 using combined tetanus, pertussis and diphtheria antigen, with a view to reducing the incidence of both tetanus and whooping cough. Diphtheria does not present a problem, four cases having been reported during 1954. It will be interesting to note whether the administration of diphtheria antigen will reduce the occurrence of ulcers on the lower legs so frequently encountered among children of pre-school age.
 - 41. This table shows the trends in twelve notifiable diseases for the past six years:—

 1949 1950 1951 1952 1953 1

		1949	1950	1951	1952	1953	1954
Dengue		280 .	274	58	135	60	7 2
Dysentery		655	403	303	267	243	244
Enteric group		223	207	111	82	35	13
Gonorrhoea		260	297	232	208	220	211
Hepatitis Infecti	ve	13	32	25	41	29	45
Infantile diarrho	ea	798	918	620	750	2,197	1,527
Influenza		3,566	5,293	3,280	4,478	3,179	8,496
Leprosy		46	39	49	33	40	26
Pertussis		350	114	234	773	245	422
Syphilis		54	27	23	21	23	12
Tetanus		30	27	31	38	33	45
Tuberculosis		448	373	234	453	498	667

42. A division of the intestinal diseases among the indigenous and non-indigenous population is made in the table below:—

			1949	1950	1951	1952	1953	1954		
Dysentery-	_									
Fijians			453	80	73	81	80	67		
Others			202	323	230	186	163	177		
Enteric Group—										
Fijians			87	100	36	31	20	6		
Others			136	107	75	51	15	7		
Infantile Diarrhoea—										
Fijians			511	680	484	455	1,562	934		
Others			287	238	136	295	635	593		

This table indicates:—

- (a) That sanitation among the Fijian villages is improving. This may be attributable to the improvement in health education promoted by the rural Health Sisters and locally trained assistant health nurses in the districts.
- (b) That the anti-typhoid inoculation campaign has given a high degree of protection to all races.
- (c) That there was no widespread or explosive outbreak of infantile diarrhoea during the year. It is still more prevalent among Fijians.

VITAL STATISTICS

- 43. The Registrar-General's statement of the population at the end of 1954 is arranged in Tables in Appendix III.
- 44. It is estimated that the average annual increase in the population of the Colony during the years 1936/46 was 6,126; while for 1946/53 the figure is 8,632. That the trend is ever upwards is shown by the estimated increase during 1954 of 9,778.
- 45. The average annual increase for the two major races for the period 1946/54 was estimated. at:—

Fijians.	• •	 • •	• •	• •	3,953
Indians	• •	 		• •	5,142

46. The rates of natural increase for the whole population of the Colony were:—

47. Among the crude birth rates may be noted the following:—

	1950	1951	1952	1953	1954
Fijians	37.11	34.42	36.67	35.18	37.00
Indians	42.49	42.45	44.69	46.08	43.17
Whole Population.	39.20	37.88	40.02	40.32	39.61
and and doubt materiarions					

The general death rates were:—

Fijians 11.00 Indians 8.60

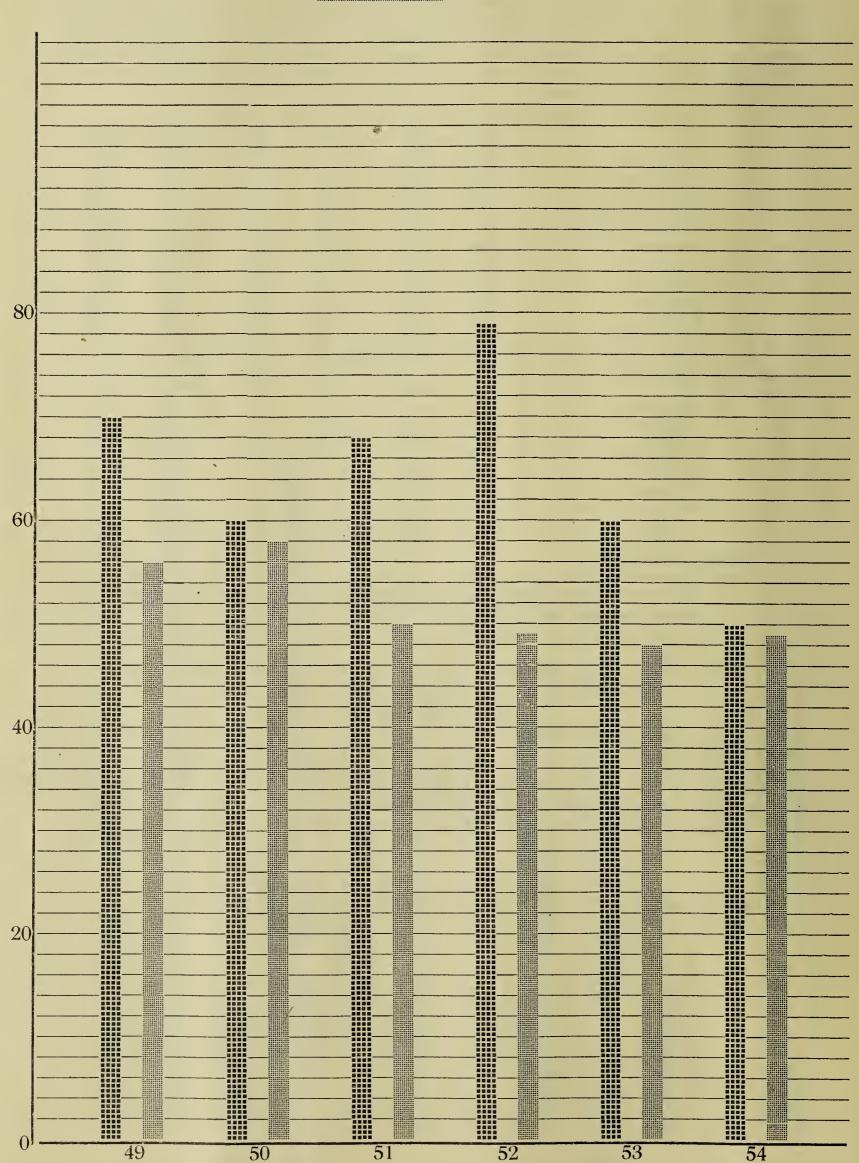
48. The Infant Mortality Rates for the last three years show:—

Fijians 79, 60, and 50 Indians 51, 48, and 49

INFANT MORTALITY RATES 1949-1954

Fijians.

Indians



HYGIENE AND SANITATION

- 49. The administration of the Public Health Ordinance of 1936 is vested in the Central Board of Health and by that Board is delegated to 22 Local Health Authorities. Advisory functions are shared between the Director of Medical Services and the Central Board of Health, which body receives reports from, and where necessary directs the activities of, the Local Health Authorities. The minutes of 98 meetings held by Local Authorities were forwarded to the Central Board of Health during 1954.
- 50. Port Health and Quarantine activities in the capital city of Suva, are in charge of the District Medical Officer, Southern who, as chief Quarantine Officer, is responsible under the Quarantine Ordinance for that work. All Medical Officers in rural areas are Medical Officers of Health to the Local Health Authorities of the sanitary districts in which they are stationed. Ten Health Inspectors with full qualifications, 23 Assistant Health Inspectors (locally trained) carry out duties under the Ordinance, while the Chief Health Inspector, is also Secretary to the Central Board of Health. Public health activities are also carried out by 11 Health Sisters and their staff of locally-trained Assistant Nurses.
- 51. The Central Board of Health is by statute, the Health Authority for the special area covered by the International Airport at Nadi on Viti Levu.
- 52. The return of the work done by all Local Health Authorities for each of the years now reported on, includes the following figures.

merados eno rono vina mae		1952	1953	1954
General Sanitary Inspection	ons	 64,031	56,766	42,716
Sanitary defects remedied		 41,243	19,985	23,090
Written notices issued		 3,219	3,957	4,609
Closing Orders issued .		 172	324	57
Demolition Orders		 48	118	212
Buildings demolished .		 93	184	35
Food premises inspected		 5,566	6,879	1,882
Improvements effected		 230	1,727	461
Foodstuffs condemned in I	Ѣs	 14,367	46,363	27,696
Food samples taken		 357	452	426

53. Supervision of New Buildings—The standard of new housing in Township and suburban areas has continued to rise, and some need is now felt for technical (engineering) advice by Local Authorities unable to scrutinize major works now being proposed for erection in their areas. Every new building, where a piped water supply exists, has a septic tank system of sewage-disposal and concrete is in large measure replacing timber frame construction in buildings.

				1304	1900	1304
	New applications received			1,133	1,881	1,151
	Declared value			£631,213	£858,101	£1,797,455
54. L	egal Proceedings were as fol	lows:				
	For offences under the Publ			ordinance:	_	
(~)				1952	1953	1954
	Cases taken to Court .			23	61	225
				21	59	203
	Penalties imposed			£62	£149	£370
(b)	For offences under the Pur	e Foo	d Ord	linance:		
(-)				1952	1953	1954
	Cases taken to Court .			22	39	42
	Convictions obtained .			19	37	41
	n 1/1. immand			£161	£278	£366

55. Sewage Disposal—Septic Tanks throughout the Colony are required to be constructed according to approved designs. Reinforced concrete latrine-slabs are manufactured in Suva by the Medical Department and sold at cost-price in all areas.

 Septic Tank proposals passed
 ...
 42
 58
 51

 Latrine-slabs sold
 ...
 ...
 390
 267
 452

56. Garbage Disposal—There is an organized collection of household and business garbage in 14 sanitary districts. About 6,000 premises are now served by official garbage collections.

57. Rat Destruction—

			1952	1953	1954
Number of traps set			11,988	4,781	12,640
Number of rats caught			3,640	934	1,875
Rats sent to laboratory			89	48	78
	* 1 1	1			

No rats were found to be infected with plague.

58. Water Supplies—These continued to give satisfaction and no cases were reported of disease attributable to water-borne infections.

Number of	samples	taken—
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1		1952	1953	1954
Bacteriological test	 	152	104	179
Chemical test	 		55	
Sea water (public baths)	 	45	13	13

SEAPORT AND AIRPORT HEALTH AND OUARANTINE

- 59. Suva, Lautoka and Levuka are the three permitted Ports of Entry for overseas ships, with Suva and Lautoka the only permitted Ports of Entry from malarial regions. Aircraft come to the International Airport at Nadi, with that at Nausori for emergency purposes, while flying boats enter at the station of the Royal New Zealand Air Force at Laucala Bay, Suva.
 - 60. During the period under review the following were the numbers concerned:—

	1952	1953	1954
Ships given pratique	142	194	· 206
Landing passengers	1,974	1,954	2,385
Aircraft given pratique	980	921	1,066
Landing passengers	6,655	7,953	10,615
Overseas vessels fumigated	16	7	15
Local vessels fumigated	75	50	92
Aircraft treated with aerosols	379	316	373
International Deratization Certificate	1	3	

- 61. The International Airport at Nadi, some 130 miles by road from the capital, handled the bulk of the air traffic. There is stationed there a Medical Officer of Health and Health Inspector with Assistants, who carry out the general sanitary measures of this airport. Strict precautions are taken at Nadi and at Laucala Bay against the accidental introduction of malaria vectors by aircraft.
- 62. The Medical Department maintains permanent resident caretakers on the Quarantine Islands of Nukulau and Makuluva, some 10 miles from Suva. The Quarantine launch makes weekly visits.
- 63. Mosquito and Filariasis Control—Rigid inspection of surface vessels and aircraft at ports of entry was maintained during the period under review. Normal methods of mosquito control were supplemented by regular residual spraying of buildings at the International Airport at Nadi, with fogging of vacant lands with the T.I.F.A. machine. The larvicide "dieldrin" was experimented with in water-emulsion form and found very effective in the treatment of rice fields outside the airport. All drainage systems were maintained in good order. International airports were kept free from Aedes aegypti, Fiji being a yellow fever receptive area.
- 64. Filariasis Control Inspectors were stationed in all areas of the Colony. Their routine duties include regular visits to villages and schools, giving advice on the eradication of Aedes scutellaris pseudo-scutellaris, the main vector of filariasis in Fiji. They give formal lectures, followed by advice on the control measures necessary. Each Inspector is accompanied on his rounds by a Provincial or District Constable who issues formal instructions to the village chiefs to carry out the control measures advised in each case. The district constables, in the more widely separated eastern islands of Lau, have been trained as Filariasis Control Inspectors, so that transport between the islands on tours of inspection has been made unnecessary.

HOSPITALS AND DISPENSARIES

- 65. The Colonial War Memorial Hospital which has 275 beds for general purposes is located in Suva. It was pleasant to have as guest surgeons during the year, Professor Milne Walker of Bristol, Professor F. Stock of Hong Kong University and Dr. Mortenson of Melbourne. These surgeons performed intricate surgical procedures from which much valuable experience was derived by the staff.
- 66. At the Colonial War Memorial Hospital, rotation of Assistant Medical Practitioners has continued whereby immediate graduates will do three months in each department. A similar arrangement has been instituted at Lautoka Hospital and will also be extended to Labasa Hospital next year.
- 67. A system was introduced during the year whereby a number of the older Assistant Medical Practitioners are brought into the Colonial War Memorial and Lautoka Hospitals for short refresher courses.
- 68. Details concerning the Colonial War Memorial Hospital, the colony's largest general hospital, 275 beds, and a list of hospitals and dispensaries are recorded in Appendices IV (a) and V.
- 69. The Mental Hospital of 100 beds is also located in Suva. Details are contained in Appendix VII.
- 70. The Tuberculosis Hospital of 313 beds, is located on an elevated site of Tamavua, approximately five miles from the centre of Suva. Details are contained at Appendix VI
- 71. The Fiji Leprosy Hospital which will accommodate approximately 800 patients is located on the island of Makogai about sixty-five miles distant from Suva, but only thirty miles from Natovi on the eastern coast of Viti Levu. Accommodation is also available for patients from Western Samoa, Eastern (American) Samoa, the Cook Islands, Niue, Tonga, the Gilbert and Ellice Islands Colony and New Zealand. A Leprosy Sub-Station is located in Suva where new cases of leprosy are accommodated pending transportation to the Hospital at Makogai. Separate buildings are provided for the reception of cases discharged from Makogai pending return to their homes in Fiji or other South Pacific Islands. See Appendices VIII (a) and (b).
- 72. The Regulations in Fiji controlling the discharge of patients were relaxed in 1952 to the extent that only one year of surveillance of inactive cases at Makogai is required instead of the two years originally demanded by statute. Discharge is controlled by strict criteria of inactivity. There is a carefully controlled follow-up of discharged patients, and the percentage of readmissions has been low.

THE NEW ZEALAND AND FIJI LEPERS' TRUST BOARDS

- 73. The New Zealand Lepers' Trust Board makes funds available annually for the treatment and comfort of leprosy patients in the various South and West Pacific Island Territories. In respect of the patients at Makogai the New Zealand Lepers' Trust Board, makes an annual allocation of funds which are dispensed by the Fiji Lepers' Trust Board which is a statutory body under the chairmanship of Sir Henry Scott, Q.C. The allocations to the Fiji Lepers' Trust Board amounted to NZ. £7,200 in 1951, NZ. £7,100 in 1952, NZ. £4,000 in 1953 and NZ. £5,500 in 1954. Bursaries have been provided to enable medical officers from the various territories to visit Makogai for study purposes. A musical band has been formed recently, the instruments for which were purchased from funds provided by the Lepers' Trust Board. Outside school hours the children indulge in sports including cricket and football; the girls receive training in needlework and handicrafts. Through the courtesy of the welfare officer of the Royal New Zealand Air Force squadron stationed in Fiji, a Boy Scout troop has been formed.
- 74. The generosity of the Lepers' Trust Board has enabled a fully equipped Technical Institute to be built for training the patients in woodwork and carpentry, and also a Physiotherapeutic Department to provide treatment of nerve lesions with the latest electro-therapeutic equipment as well as with the time-honoured physical methods.
- 75. His Excellency Sir Ronald Garvey, K.C.M.G., K.C.V.O., M.B.E., in opening the Institute, named it the Ernest Wolfgram Technical Institute in memory of the man (himself a leprosy patient) who did so much for the communal life of the patients—until his death on the Island in 1948.
- 76. The governments of Fiji and New Zealand contribute annually to a building and replacement fund. The former electrical power supply has already been replaced by larger generators, and the present water supply is now being improved. With the assistance of a grant from United Kingdom Colonial Development and Welfare Fund, new quarters, including kitchen, for 100 Indian patients were completed during the year. A new school for the children of labourers engaged in growing foodstuffs and in other activities for the hospital, residential quarters for Assistant Medical Practitioners who receive training at Makogai as part of the Medical curriculum of the Central Medical School are now scheduled for construction during 1955.
- 77. The Indian Reform League in Fiji contributed a considerable sum of money towards a recreation room for the Indian patients at Makogai—this building will be formally opened in 1955.
- 78. The loyalty, enthusiasm and devoted service of the Sisters at Dalice and the lay staff at Nasau make possible the satisfactory operation of this institution.
 - 79. Visitors to Makogai during 1954 included:—

His Excellency Sir Ronald Garvey, Governor of Fiji.

Sir Willoughby and Lady Norrie, Governor-General of New Zealand.

Sir Henry Scott, Q.C., Chairman, Fiji Lepers' Trust Board.

Dr. J. M. Cruikshank, Director of Medical Services.

Mr. W. E. Donovan, Secretary, Fiji Lepers' Trust Board.

Professor R. Milne Walker, England.

Dr. F. Airey, England.

Lieut. Commander B. L. Twomey with officers and other ranks of the Royal New Zealand Navy Frigate, *Kiwi*.

80. A report in detail of the Central Leprosy Hospital at Makogai and the Leprosy Sub-Station at Korovou, Suva is contained in Appendices VIII (a) and (b).

DISTRICT HOSPITALS AND DISPENSARIES

- 81. Three district hospitals are located at Lautoka, Labasa and Levuka. There are also four privately owned hospitals ranging in bed capacity from four to forty-one beds subsidized by government. Fourteen rural hospitals are staffed by Assistant Medical Practitioners and locally trained nurses. These hospitals are supervised by visits from the medical officers located in the respective districts. Three dispensaries are located in the Suva area, and forty-four rural dispensaries are located at strategic centres in the various islands. These dispensaries are under the charge of Assistant Medical Practitioners and locally trained nurses.
- 82. In accordance with present policy a number of thatched dispensaries are being replaced each year by buildings of timber construction. Most dispensaries consist of one room 12 feet by 12 feet, but a few in remote areas have an additional room of the same dimensions where patients may be kept for observation, or pending transfer to hospitals. These buildings which consist of panels 8 feet by 3 feet complete with windows and doors are prefabricated by the Medical Department and along with furnishings and cement are transported to the site by lorry porterage or medical vessel. There they are erected on a concrete dwarf wall with concrete floor prepared at the site.
- 83. In addition to replacements, a new dispensary was erected at Tukavesi on the island of Vanua Levu.
- 84. One Health Sister is fully occupied on school health duties in the Suva area and eleven Health Sisters are located at strategic centres conducting ante-natal clinics, school inspections, child welfare work and supervising the locally trained nurses engaged in child welfare and maternity services in the rural areas.
- 85. For a population of approximately 330,000 there are available a total of 1,414 hospital beds, exclusive of the 750 beds at the Leprosy Hospital. A list of hospitals, their bed capacity and the location of dispensaries is at Appendix IV (a).

NUTRITION

86. Miss Susan Holmes, the Senior Nutritionist, South Pacific Health Service directed the activites carried out by the Dietitians employed at the Medical Department institutions and assumed the responsibility of providing lectures in this subject for medical and nursing students. Nutrition activities in Fiji are contained in Appendix XII.

EYE CONDITIONS

- 87. Such information as is available concerning eye conditions in Fiji has been reviewed in anticipation of the arrival in 1955 of an ophthalmologist to augment the medical establishment.
- 88. On the occasion in 1950, of a visiting ophthalmologist from Australia, record was kept of 352 patients who were seen in Suva and Lautoka during a period of nine weeks. Of these 77 per cent were simple refractions; 4 per cent were squints; 5 per cent pterygia; 1 per cent glaucoma; a group of 3 per cent including cases of iritis, two optic atrophies (one Leber's disease) one retinoblastoma, one conjunctival melanoma, one cavernous sinus thrombosis, and two cases of Eale's disease. A final group of 6 per cent of cases seen privately had bilateral cataracts sufficiently advanced to reduce vision to less than 6/60.
- 89. Of the sight reducing conditions, cataract is considered the commonest cause, being more prevalent among the Indians than Fijians. This may not be due to any racial predisposition but to the fact that the number of Indians attending eye clinics predominates.
- 90. Various corneal conditions appear to be the next most common cause of reduced vision. The exact nature of these has not always been definitely established. Some have associated lid conditions and pannus, suggesting that they may be old trachoma cases. There is a fairly common type of granular conjunctivitis without any corneal involvement which responds well to treatment and needs to be carefully differentiated from new cases of possible trachoma.
- 91. During the regular yearly visit of a leading ophthalmologist from Australia during the past years, systematic lectures have been given to medical students, and practical demonstrations to an Assistant Medical Practitioner who is already skilled in operative work, and who has also undergone special training in the Dunedin (New Zealand) Eye Hospital.
- 92. Records of general health are kept concerning the various villages, and blindness cards are in use by the Assistant Medical Practitioners for the supply of information to the Central Register of the Blind, which is kept in Suva. As the records become more complete, additional information will be available regarding eye conditions in the Colony. This will enable future preventive measures to be applied in a more precise manner.
- 93. With the appointment of an ophthalmologist in 1955, lectures in ophthalmology to students at the Central Medical School will be placed on a firm basis, and the sketchy information concerning eye conditions in the Colony will be thoroughly investigated. Whether true trachoma exists in Fiji has been controversial for many years, and it has been stated that inclusion bodies typical of trachoma have been found in normal eyes. It is hoped that the present indefinite status of trachoma will soon be clarified, and up-to-date information regarding the incidence of blindness in Fiji will be forthcoming.
- 94. From figures so far available, it appears that blindness to such a degree as to disable any significant proportion of the wage-earning population, or to make them dependent on public assistance, is not high. The following information is taken from the 1946 census report:—

		1911	1921	1936	1946
	Race	Blind	Blind	Blind	Nearly Blind
	per cent				
Fijian	1.51	1.29	0.99	0.45	0.67
Indian	0.12	0.15	0.26	0.11	0.23
Total population .	0.99	0.79	0.63	0.27	0.43

- 95. In actual numbers—in 1946, out of a total Colony population of 259,638, 704 persons were shown to be blind, and a further 1,116 were shown to be "nearly blind". Of this grand total of 1,820 persons with gross visual defect it is stated that "almost without exception this number referred to persons of 40 years of age and over", and it may therefore be reasonably assumed that a large number were persons who by reason of advanced age alone had passed out of the wage earning group. Again, a large number (728) were shown to be women, few if any of whom would be likely to have been ever engaged in other than domestic and housewifery duties. Finally the figures for blindness and near blindness have shown a steady downward trend over the successive years for which figures are available and if, as it likely, this trend has been maintained, or at least not reversed, it would appear that the present problem of economic rehabilitation of the blind or near blind in this Colony—as apart from the question of treatment of remediable visual defects—is likely to involve a good deal less than 1,000 persons.
- 96. The Central Register of the Blind which was inaugurated in 1950, reveals a total of only 57 cases of blindness having been reported on the blindness cards which were devised. It is felt that the register cannot therefore be regarded as complete or representative despite instructions which have been issued to Assistant Medical Practitioners. With the appointment of an ophthal-mologist, the interest in blindness will be stimulated and a marked improvement in the accuracy of the Central Register is anticipated.
- 97. The numbers of attendances at the Eye Department of the Colonial War Memorial Hospital during 1954 was as follows:—

Fijian	Indian	Others	Total
921	1,093	393	2,407

DENTAL DIVISION

DENTAL CLINIC—COLONIAL WAR MEMORIAL HOSPITAL.

99. Dental treatment was given to the general public, in-patients and school children throughout the year by 3rd and 4th year students of the Dental School under the Supervision of the graduate dental officers.

100. The clinic operated in two sections. Patients attending for the first time were examined and given necessary immediate treatment in the examination Clinic consisting of three chairs. Patients for conservative treatment attended by appointment in the School Clinic consisting of five chairs. The remaining chair was set aside for the Senior year as a demonstration chair.

101. Treatments—	ŭ			
Operative Dentistry—	Oral Surgery—			
Amalgam 1 Surface 1,069	Alveolectomy			24
Amalgam 2 Surface 462	Impaction			37
Amalgam over 2 Surface 165	Surgical Remova			60
Silicate Cement 262	Fractures			23
Base Intermediate 734				
Zinc Oxide Temporary 448				
Anaesthesia—	Dentures—			
Local 3,921	Full Upper .			105
General 216	Full Lower .			88
Exodontia—	Partial Upper			104
Extractions 4,603	Partial Lower			40
Radiodontia—	Rebasing Upper			12
Intra Oral Film 171	Rebasing Lower			10
Intra Oral Film-Bitewing 73	Repairs			47
Patients—	•			
European Adults 433	European Children			645
Indian Adults 1,577	Indian Children			2,149
Fijian Adults 1,526	Fijian Children			1,512
Others 448	Others			442
Total Patients for the year				8,732
Revenue—				
Cash received in Dental Clinic .		£1,672	18	5
Fees through Hospital Office Account	nt	356	6)
	Total	£2,029	4	5
	TOTAL	,020	, ,	

102. Development—Plans were finalized for the conversion of a former Central Medical School building to a new Dental Clinic. This project has been given an early priority for 1955. Dental chairs and units together with other equipment were purchased and stored in readiness.

103. Touring Dental Service—

Staff Ratu I. L. Vosailagi (until August)

A. D. P. N. Waqanaceva A. D. P. J. Ravunakava.

Dental tours, usually of about twenty-eight days, were made to hospitals and schools throughout the islands as follows:—

	Examinations	Extractions	Fillings	Scalings
Lau Group	68	103		
Nasinu Training College	84	18	86	6
Yasawas	195	98		
Vatulele	24	35	5	
Labasa Hospital	177	72	43	
Waiyevo Hospital and Schools	73 0	48	16	
Ratu Kadavulevu School	130	20	140	4
Nabouwalu Rural Hospital and Schools	445	156	145	10
Queen Victoria School	150	5	89	7
Lautoka Hospital and Schools	426	312	205	23
Vatukoula Government School	621	161	210	13
Navua Schools	322	291	47	4
Levuka Hospital and Schools	209	165	127	3
Makogai Hospital and Schools	238	95	68	20
		1.550	1 101	$\overline{92}$
Total	3,819	1,579	1,181	92

104. All revenue received was paid in at the respective hospitals. During holiday periods and between tours the travelling officers were engaged in the Colonial War Memoraial Hospital Clinic.

105. Tamavua Tuberculosis Hospital Dental Clinic—Treatment to "up" patients was given by senior students attending by roster each day of the academic year except when lectures prevented their attendance.

Extractions	 	 	 178
Examinations		 	 286
Scaling .	 	 	 50
Fillings			243

DEPARTMENT VESSELS

- 106. The Medical Department maintains several vessels. The auxiliary ketch *Makogai* of 26 tons is based on the island of Makogai, and is used solely for the carriage of staff, visitors and stores between Suva and the leprosy hospital at Makogai, a distance of 65 miles with occasional trips to Levuka and Natovi. The vessels was fully employed on these duties throughout the year.
- 107. In Suva the Health Department operates the motor launch *Vuniwai-ni-toba*. This launch combines quarantine with fumigation duties and maintains the weekly link between Suva and the quarantine islands of Makuluva and Nukulau.
- 108. At Wainibokasi there is a small motor launch the Adi Makareta, which is used principally by the Health Sister, Nausori, for inspection of native villages in the Rewa delta and the Tailevu coast.
- 109. The 42 ton auxiliary ketch *Vuniwai* was busily employed for eleven months of 1954. Inspection tours were undertaken by the Director ond Deputy Director of Medical Services, Medical Officers, the Senior Dental Officer, Assistant Dental Practitioner, Nursing Superintendent and Health Sisters. Many islands and medical stations were visited. When convenient the vessel was utilized to transfer Medical and Nursing Staff within the group and to Suva when proceeding on leave. The vessel was also able to implement the Department's programme for the replacement of native type dispensaries, by carriying prefabricated wooden dispensaries, as well as carpenters to erect them, to several distant parts of the Group. His Excellency the Governor utilized the *Vuniwai* for a tour of the Yasawa Group in June and later in the year visited Kadavu. In February, she was placed at the disposal of Ratu Sir Lala Sukuna, K.C.M.G., K.B.E., who in company with Father Ganey, made an inspection tour of Co-operative Society and Credit Union Branches in the Natewa Bay district. By means of the vessel Health Sisters at Labasa, Lautoka and Savu Savu are able to make twice yearly visits of child welfare inspection in their districts.
- 110. It was unfortunate that on the night of 4th December whilst on a voyage from Savu Savu to Suva, the vessel was stranded on the main reef at Wakaya. She was refloated the next day and was able to proceed to Suva, but was damaged to such an extent that she was out of action for about six weeks.
- 111. Below are the names of the islands and places, visited by the a.k. *Vuniwai* during the year 1954:—
 - Northern District (Vanua Levu), Udu, Visoqo, Labasa, Naduri, Dreketi, Nabouwalu, Savu Savu, Tukavesi, Buca Bay, Korotasere, Vuinadi, Saqani, Vatuvou, Nivaka, Baulailai.
 - Cakaudrove District—Taveuni, Rabe, Nabuka, Natewa, Wailevu, Yacata, Laucala, Qele Levu Lagoon, Tawake, Devo, Kioa.

Eastern District—Levuka, Moturiki, Gau, Makogai, Koro, Nairai.

Lau District—Moala, Matuku, Kabara, Totoya, Fulaga, Lakeba, Cicia, Vanuavatu, Lomaloma, Katafaga, Munia, Moce, Ogea, Namuka, Oneata.

Southern District—All Kadavu ports, Bega.

Western District—All the main islands in the Yasawa and Mamanuca Groups including Vatulele.

LABORATORY DIVISION

- 112. The year 1954 has been chiefly marked by staff changes. Mr. J. E. Pery-Johnston, who had held the post of Laboratory Superintendent for many years left the Laboratory in February on extended leave and resigned later in the year. This essential and key post had not been filled by the end of the year. Lenitasi Kuruduadua retired from the Laboratory in April after many years service, and Assistant Medical Practitioner Samuela Baravilala was admitted to hospital in October; this was a serious loss to the Laboratory, but it is hoped that he will be able to return to duty in 1955.
- 113. P. Pillay having successfully completed the three years course, was appointed Laboratory Assistant in April Six students from Fiji were enrolled for training during the year. One student from the Cook Islands is also doing the full course.
- 114. The shortage of staff was still further accentuated at the end of the year by the necessity of seconding staff to work full time with the Serologist appointed to work in the Laboratory by the World Health Organization for the Yaws Campaign. Students in turn, are seconded to this work for additional training.
- 115. With the appointment of more specialist staff in the Medical Department it is inevitable that demands on the service which the Laboratory was designed to provide will increase, together with further demands from the Health Authorities with increasing consciousness of the importance of investigations into the cleanliness and purity of food and water supplies. This has happened, and in spite of staff difficulties the work of the Laboratory increased very considerably during the year.
- 116. Teaching—In accordance with the terms of the appointment of the Pathologist a considerable amount of time is, and should be, given to lecturing in the Central Medical School. This has been continued during the year, the subjects covered being General Pathology, Clinical Pathology, Forensic Medicine and Histology. Many specimens have been collected and mounted in perspex jars and classified to form the nucleus of a teaching museum during the year. Formal lectures in Physiology and Histology have been given to the Laboratory Students.
- 117. Forensic Medicine—A considerable amount of time is taken up in performing post mortems for the Police and subsequent attendance at Court in criminal cases, which have been rather numerous during the past year. The total number of autopsies carried out during the year was 133, of which 39 were for the Police. These included two cases of homicide, six of suicide, nine accidental drowning, 2 electrocution and six from traffic accidents.

118. Blood Films for Parasites—Sixty-eight stained films were examined for malaria. Parasites were found in 16. These were all Plasmodium vivax and imported cases, mostly in members of the Fiji Forces returned from Malaya. The importation of these cases, most of whom were were carrying gametocytes (infective forms) into a malaria free country shows the necessity for vigilance in controlling the possible importation of mosquito vectors. Films examined for microfilariae numbered 337, of which 27 were positive. These films were mainly from members of the Fiji Military Forces during routine pre-embarkation examinations.

119. Details of the specimens examined at the Central Laboratory, Suva (33,439) and in

the Branch Laboratory at Lautoka (14,832) are shown in Appendix IX.

TRAINING

CENTAL MEDICAL (AND DENTAL) SCHOOL

120. The Advisory Board consists of the Director of Medical Services, Fiji (who is also Inspector-General, South Pacific Health Service), Chairman; the Director of Education, Fiji; the Secretary for Fijian Affairs; the Deputy Director of Medical Services, Fiji; the Medical Officer-in-Charge of the Colonial War Memorial Hospital, and the Principal of the School. The Chief Secretary, Western Pacific High Commission, is also a member of the Board, but due to the transfer in December, 1952, of the headquarters of the Western Pacific High Commission to Honiara in the British Solomon Islands Protectorate, this officer's functions as a member of the Board have been delegated by that Administration to the Inspector-General. Dr. E. W. Udick, a dental officer on loan from the United States Trust Territory of the Pacific, represented the High Commissioner of that administration on the Advisory Board during 1954.

121. The Academic Board consisting of the Principal (Chairman), the Medical Officer-in-Charge of the Colonial War Memorial Hospital, the Physician Specialist, the Surgeon Specialist, the Medical Officer of Health and the Senior Dental Officer meets quarterly to keep the curriculum

constantly under review and to assess the progress of the students.

122. Assistant Medical Practitioner is the designation given to a graduate in medicine from the Central Medical School. Dental graduates are Assistant Dental Practitioners. In the South Pacific Health Service territories these graduates do not engage in private practice but are full

time members of the medical staffs of the participating territories.

Until 1949 the average total intake from all territories was 40 students. To supply replacements due to retirements and illness, and to staff additional dispensaries to serve an increasing population and to enable Assistant Medical Practitioners to receive post-graduate training in special fields of medicine, the enrolment was doubled in 1950 and again doubled in 1951. This together with the enrolment in 1951 af 37 medical and 29 dental students transferred from the United States Medical School in Guam placed a considerable strain on teaching and accommodation facilities, until the new Central Medical School building was occupied in 1954.

123. The additional burden on the school was greatly alleviated by the High Commissioner of the United States Trust Territory of the Pacific seconding Dr. H. L. Cloud, Dental Educator to the school during 1951 and 1952. Dr. Cloud was relieved in 1953 by Dr. Earl W. Udick and Mrs. Udick, both fully qualified dentists. Dr. Udick also served as Liaison Officer between the School and the United States Trust Territory. This valuable assistance has been greatly appreciated and through their efforts a sound training in dentistry was ensured, as Mr. D. M. Ellerton was not appointed to the vacant post of Senior Dental Officer until June, 1953. Mrs. Udick returned to the United States during the year and Dr. Udick completed his two years secondment in December, 1954.

124. The new school building is of reinforced concrete, three stories in the front and two stories in each wing. It contains offices, lecture rooms, laboratories, library, common room, dining room recreation room, a modernly equipped kitchen and sleeping accommodation for approxi-

mately 150 students.

125. To take advantage of the higher standard of secondary education available in some of the territories and to provide more training in basic science, anatomy, physiology and clinical subjects a five year medical course was inaugurated in 1951 concurrently with the four year medical course. The students at present enrolled in the four year course will have progressed sufficiently to be absorbed into the five year course, and commencing in 1955 only a five year medical course will be provided. Through the co-operation of the Department of Education, a special course in Secondary School subjects extending over a period of one or two years as required will also commence in 1955, to prepare students for entry to the five year medical course, who are enrolled from territories where facilities for secondary education are still in the process of development. The course in secondary school subjects will be given at the Central Medical School. (This arrangement has been endorsed by the World Health Organization Adviser in Education and Training who visited Fiji early in 1954).

126. The Colonial War Memorial (general) Hospital (275 beds), the Tamavua Tuberculosis Hospital (313 beds), the Mental Hospital (100 beds) and the Central Leprosy Hoospital, Makogai approximately 650 patients, provide amply clinical material for the students and full use is made of the Colony's health divisions, namely, Tuberculosis, Leprosy, Yaws, Mosquito and Filariasis Control, Sanitary Engineering, School and Welfare Clinics, Nutrition and Quarantine services for

training is preventive medicine, environmental hygiene and epidemiology.

127. Medical Auxiliary subjects—Apart from medical and dental training, complete courses leading to a local certificate in the following technical subjects are available in conjunction with the Central Medical School and Fiji Medical and Health Departments:—

 128. The Assistant Sanitary Inspectors course includes training in Malaria and filariasis control and the application of insecticides. Students from territories other than Fiji may complete the third year in the health department of their home territory.

129. The following table shows the increase in the enrolment of students during the past

six years and the courses they pursued.

	,								
Course	•	•		1949	1950	1951	1952	1953	1954
Medical				42	76	124	129	123	100
Dental				1	2	23	30	23	33
Pharmacy				2	5	5	9	6	7
Sanitation				6	14	10	20	13	19
Laboratory				3	5	6	12	8	6
*Filariasis and	Mosqu	uito Co	ntrol	13	16	14	21	9	8
X-ray				0	0	1	1	3	3
									
	Tot	al		67	118	183	222	185	176

^{*} All sanitation students now take this course although it may be taken independently if so requested by a territory. See Appendix XIV (a) for further details.

- 130. Post-Graduate Courses—Special courses are available in tuberculosis (diagnosis, clinical, laboratory, X-ray, treatment, Mantoux testing and B.C.G. vaccination); leprosy (diagnosis, treatment, registration and follow-up); eye diseases; ante-natal and infant welfare work; obstetrics; school health; nutrition; port quarantine duties; filariasis and mosquito control. Periodically Assistant Medical Practitioners are now returned to the school and hospitals for refresher courses in general and special subjects.
- 131. Outstanding Assistant Medical Practitioners contingent upon Medical Department requirements are selected for further training overseas if this cannot be provided at the Suva Medical Centre. These facilities have been made possible through the kind co-operation of Sir Charles Hercus, D.S.O., O.B.E., Dean of the Medical Faculty, University of Otago and Professor E. Ford, Dean of the Medical Faculty, Sydney University. The Metropolitan Health Departments of Auckland, New Zealand and Sydney, Australia occasionally allow Assistant Medical Practitioners during overseas leave to observe the functioning of their respective departments.
- 132. The students continue to excel in sport particularly football. Additional playing fields are provided at the new buildings. The quarantine islands adjacent to the harbour of Suva are available for outings during the term and long vacations.
- 133. In 1953 some of the medical schools in England agreed to recognise the facilities available at the Colonial War Memorial Hospital, as meeting the requirements for the compulsory year of hospital training prior to medical registration. The Medical Council of New Zealand is also considering the granting of similar recognition. This may lead to applications being received for appointments as resident housemen from students in the United Kingdom and New Zealand, and in particular from medical students from Fiji who are attending medical schools abroad.

CENTRAL NURSING SCHOOL AND HOSTEL

- 134. The construction of a group of new buildings for the accommodation and training of local girls in nursing was provided for in the United Kingdom Colonial Development and Welfare Grant for the Suva Medical Centre. Some of these buildings were brought into use during 1954 but the remainder will not be ready for occupancy until early in 1955. Class-rooms, accommodation and ancillary services for approximately 200 nurses are provided.
- 135. New Zealand Registration Standard—Through the Director of the Division of Nursing, New Zealand and with the approval of the New Zealand Nurses' and Midwives' Board arrangements have been completed for a course of training to New Zealand registration standard being provided in Fiji. It is expected that the first class will be enrolled in January 1955. Candidates for admission to this course will need to possess the educational standard required by New Zealand Nursing Schools. Until sufficient numbers of candidates with the higher educational standard are offering, girls of lower educational level will continue to be accepted for training to the present local Fiji registration standard.
- 136. Registration of Nurses and Midwives—The Nurses' and Midwives' Board consists of the Director of Medical Services as Chairman, the Nursing Superintendent and the Principal, of the Central Nursing School as ex officio members and three members appointed by the Governor in Council. Although provision has been made for the representation of nurses in private practice, there are at present none engaged in private nursing who are not in some way subsidized by Government. Regulations under the Nurses and Midwives Ordinance (1948) came into force in 1952.
- 137. Nursing Stafi—The majority of the State registered nursing staff at the hospitals, and the rural Health Sisters are obtained by secondment from the Department of Health, New Zealand on agreements of one or two years duration. Some of these nurses, extend their agreement and a few return for a second tour. A shortage of tutor sisters has been experienced throughout the year. The staff of locally trained/nurses was maintained at a satisfactory level.
- 138. Additional information regarding the training of nurses and work at school and welfare clinics is contained in Appendix XV.
- METEOROLOGY
 139. Summaries of Meteorological observations for 1954 are given at Appendix XX. For these I am indebted to the Meteorological Officer at Laucala Bay, Suva.

APPENDIX 1

DEPARTMENTAL ESTABLISHMENT

				1954	31/12/54
1. MEDICAL AND ADMINISTRATIVE SECTION—					
Director of Medical Services	• •	• •	• •	1	
Deputy Director of Medical Services Assistant Director (Health and Medical)	• •	• •	• •	1	(1 vacant)
Secretary	• •	• •	• •	1	(I vacant)
Senior Medical Officers		• •	7 •	3	(1 vacant)
Physician Specialist	• •		• •	1	(2)
Surgeon Specialist				1	
Medical Officers			• •	18	(4 vacant)
Ophthalmologist	• •	• •	• •	1	(vacant)
Radiologist	• •	• •	• •	$\frac{1}{2}$	(vacant)
Dental Surgeons Pathologist			• •	1	
Assistant Medical Practitioners				98	
Assistant Dental Practitioners				2	
·					
2. Nursing Section—					
Nursing Superintendent				1	
Matrons and Assistant Matrons		• •		5	(2 vacant)
Nursing Sisters				49	(7 vacant)
Health Sisters				11	
Principal (1) Tutors (6) Nursing School	• •	• •	• •	7	(3 vacant)
Nurses	• •	• •	• •	342	(28 vacant)
3. Technical Section					
Laboratory Superintendent				1	(vacant)
Laboratory Assistants				8	(1 vacant)
Chief Health Inspector	• •	• •	• •	1	
Health Instructor	· ·	٠.	• •	33	(2 xxx cont)
Health Inspectors (10) Assistant Inspector Government Pharmacists (3) Assistants (115 (23 ₎ 4)		• •	7	(3 vacant) (2 vacant)
Radiographers (2) X-ray Assistants (2)	* <i>)</i>	• •	• •	4	(2 vacant)
Dietitians		• •		3	
Dental Mechanic				1	
4. CLERICAL SECTION—					
Clerical Staff				35	
5. Supervisory Section—					
Mental Hospital, Attendants (2) Orderlie	e (19)			21	
Caretaker, Quarantine Island		• •	••	1	
Carpenters (3) Engineers (3) Storekeepers		• •		8	
Occupational Instructor	••			1	
Housekeepers (3) Laundry (2) Seamstress	s(1)			6	
Subordinate Staff		• •	• •	112	
6. CENTRAL MEDICAL SCHOOL—					
Principal (1) Assistant Principal (1)				2	(1 vacant)
Dental Officer (1) Dental Mechanic (1)				2	
Science Lecturer	(C)	• •	• •	1 8	
Housekeeper (1) Clerical staff (1) Servant	.s (6)	• •	• •	0	
7. FIJI LEPROSY HOSPITAL—					
Medical Officer		• •	• •	1	(Acting)
Clerical Staff	· ·	• •	• •	$\frac{2}{7}$	
Overseer (1) School teachers (2) Constables Bakers (4), Labourers and Servants (30)		• •	• •	34	
Nursing Sisters		• •	• •	$\frac{34}{23}$	
8. Malaria Prevention and Filariasis Con	TROI				
				1	•
Supervisor	• •	• •	• •	1	
Supervisor Senior Inspectors (4) Inspectors (19) Assi	istants	(45)		€8	
Clerical Staff (2) Pupils (6)		• •		8	
· · · · · · · · · · · · · · · · · · ·					

APPENDIX II (a)

NOTIFICATION OF INFECTIOUS DISEASES BY DISTRICTS FOR THE YEAR 1954

APPENDIX II (b)NOTIFICATION OF INFECTIOUS DISEASES BY RACE FOR THE YEAR 1954

	Europeans	Part-Europ.	Fijians	Indians	Others	Totals
Acute anterior-poliomyelitis					•••	
Cerebro-spinal meningitis			6	3	1	10
Chicken-vox (varicella)	4	4	105	29	22	164
Dysentery—			_			
(a) Amoebic	•••	$\frac{1}{2}$	_7	13		21
(b) Bacillary	3	3	55	85	7	153
(c) Unclassified	4	0.57	12	74	700	91
Influenza Measles—	110	257	5,261	2,140	728	8,496
(- \ M1 :11: -	2		4	1		7
215 0	9	••••		-	• • • •	3
Mr.			8	1		9
Mumps	• • • • • • • • • • • • • • • • • • • •		9	1 1	• • • •	
(a) Enteric			6	5	1	12
(b) Para-typhoid				1		1
Whooping Cough	12	4	212	177	17	422
Anthrax						
Beriberi			1	1	1	3
Dengue fever	3		51	17	1	72
Diphtheria	• • • • • •			4		4
Encephalitis Lethargica	•• •••		1		****	1
Erysipelas	1		1	6	105	8
Infantile diarrhoea	13	26	934	419	135	1,527
Infective Hepatitis		1 1	18 12	$\frac{22}{9}$	4	45 26
Leprosy	•••	1			-	
Leptospirosis Malaria	• • • • • • • • • • • • • • • • • • • •		3	• • • •	• • • •	3
Malaria		1	16	15		33
Scarlet fever		1 1				
Tetanus		1	22	19	3	45
Trachoma	1	2	41	16		60
Tuberculosis—				0		
(a) Pulmonary	11	10	357	142	54	574
(b) Other forms		6	53	28		93
Undulant fever				• • • •	• • • •	
Venereal disease—						
(a) Climatic Bubo			107	• • • •		
(b) Gonorrhoea	11	8	107	74	11	211
(c) Ophthalmia neonatorum	•• •••		2			4
Ophthalmia gonorrhoeal	•••	• • • •		1	1	**
(d) Soft Chancre (e) Syphilis	•••		1	10	1	12
(e) Syphilis (f) Venereal granuloma			* *			
2" \ ~-		14	3,933	76	147	4,170
(g) Yaws Ankylostomiasis	1	4	212	155	8	380
Total	182	343	11,441	3,543	1,151	16,660

NOTIFICATION OF INFECTIOUS DISEASES BY MONTHS FOR THE YEAR 1954

APPENDIX II (c)

Disease

September November December February January October August Totals April June May July ...10 Ac. Ant.-poliomyelitis ..3 2 Cerebro-spinal meningitis . ·· 11 10 11 12 21 14 23 21 26 561 6 Chicken-pox 6 Dysentery-3 21 3 3 4 2 (a) Amoebic ... 5 .. 39 32 153 9 17 9 3 27 3 4 Bacillary 5 4 . . (c) Unclassified 12 9 7 22 91 14 6 1 3,408 Influenza 181 361 326 286 414 378 612 1,301 329 475 425 8,496 Measles-(a) Morbilli 2 7 2 1 1 13 ..1 (b) German 3 • • • • ... 2 Mumps 1 1 9 Typhoid fever-12 2 2 6 1 1 (a) Enteric • • • • . . (b) Para-typhoid 19 36 30 56 35 25 20 28 28 26 27 92 422 Whooping Cough ... Anthrax ٠.7 $\cdot \cdot_2$ Beriberi 3 . . 5 6 6 10 3 27 72 Dengue Fever . . 4 Diphtheria ... 1 1 1 1 ٠. . . $\cdot \cdot_2$ 1 Encephalitis Lethargic • • Erysipelas ... 40 · · · 53 112 99 1,527 203 106 50 Infantile diarrhoea . 64 408 81 193 118 2 2 8 7 3 2 4 45 Infective Hepatitis. 3 5 4 6 2 3 2 26 1 Leprosy . . Leptospirosis ٠.7 3 1 Malaria 2 2 Puerperal Fever 2 1 3 4 5 2 33 4 . . • • ..7 $\cdot \cdot_2$ $\cdot \cdot_2$ $\cdot \cdot \cdot_2$ Scarlet Fever ·i0 • • ..7 2 5 6 45 Tetanus 4 1 3 4 2 7 3 60 13 15 Trachoma ... 1 Tuberculosis— (a) Pulmonary (b) Others . 53 72 72 80 30 45 71 41 29 25 12 574 44 4 8 4 12 6 8 5 8 93 5 12 14 . . Undulant Fever • • Venereal Diseases— (a) Climatic Bubo(b) Gonorrhoea 21 21 14 21 21 15 21 18 211 15 16 15 13 Ophthalmianeonatorum gonorrhoeal 1 1 1 (d) Soft Chancre ٠. • • • • • • 12 2 2 3 Syphilis 1 1 1 ٠. Ven. granuloma • • • • . . • • ٠. . . • • • • $\cdot \cdot_2$ Others (g). . 73 4,170 Yaws 2 724 899 988 627 855 25 27 4 35 33 28 31 47 35 32 35 380 Ankylostomiasis 48 1,927 16,660 405 765 778 657 762 616 943 4,469 2,451 1,533 1,354 Total

APPENDIX III

VITAL STATISTICS

(1) ESTIMATED POPULATION AT 31st DECEMBER, 1954

Race	Male	Female	Total	(1953)	Difference	Per cent increase	Population per sq. mile
Fijians	72,639 84,583 4,831 4,003 2,930 2,098 2,643 358	70,461 75,720 3,629 3,745 2,058 2,036 1,342 313	143,100 160,303 8,460 7,748 4,988 4,134 3,985 671	139,373 154,803 8,422 7,496 4,133 3,990 3,877 662	$\begin{array}{c} +3,727 \\ +5,500 \\ +38 \\ +252 \\ +855 \\ +144 \\ +108 \\ +9 \end{array}$	2.7 3.6 .45 3.4 20.69 3.5 2.8 1.4	20·33 22·77 1·49 1·10 ·71 ·59* ·57 ·10
Totals	171,115	157,246	328,401	318,623	+ 9,778	3.1	47.36

^{*} Rotuman population-density expressed for whole colony-area: if all Rotumans lived on Rotuma density there would be 229.67 per square mile.

(2) BIRTHS RECORDED DURING YEARS 1951–1954

]	Race		1951	1952	1953	1954	Crude birth-rate per Mille, 1954
T 11.			 4,575 6,056 108 239 185 143	4,983 6,650 113 257 171 185	4,903 7,133 139 243 194 169	5,294 6,921 145 286 191 184	37·00 43·17 17·14 36·91 46·20 36·90
Chinese Others	Fotal	••	134	139 14 12,512	12,936	103 80	25.85 119.92 39.61

(3) DEATHS RECORDED DURING YEARS 1951–1954

	Race		1951	1952	1953	1954	Crude death-rate per Mille, 1954
Fijians Indians Europeans Euronesian Rotumans Polynesians Chinese Others	s .		 1,659 1,252 33 58 61 69 18	2,004 1,325 35 42 119 58 18 5	1,478 1,257 20 45 49 48 28 1	1,531 1,378 34 34 47 60 16 6	11·00 8·60 4·02 4·39 11·37 12·03 4·02 8·94
	Total	••	 3,150	3,606	2,926	3,106	9.32

MARRIAGES, BIRTHS, DEATHS AND NATURAL INCREASE—1954

Race	Marriages	Births	Deaths	Net Increase	1953 Total	Increase per Mille.
Fijians Indians Europeans Euronesians Rotumans Polynesians Chinese	. 1,476 . 55 . 60 . 38 . 21 . 14	5,294 6,921 145 286 191 184 103 80	1,531 1,378 34 34 47 60 16 6	3,763 5,543 111 252 ° 144 124 87 74	139,373 154,803 8,422 7,496 3,990 4,599 3,877 662	27 36 13 34 37 27 22 11
Totals .	. 2,672	13,204	3,106	10,098	323,222	31

Note:—The Registrar-General has published amended 1953 figures.

INFANT AND CHILD MORTALITY

			Births		DEATHS					
				Under 1	1-2	2–3	3-4	4-5	Total	Rate per Mille
1952—Fijians Indians	••	•••	4,983 6,650	394 341	237 45	79 19	34	31 10	775 428	79 51
- '.,	••		4,903 7,133	293 341	138 28	40 13	20 9	14	505 400	60 48
1954—Fijians Indians	•• ,		5,294 6,921	267 340	131 44	44 20	20 15	13 12	475 431	50 49

APPENDIX IV (a)

HOSPITALS AND DISPENSARIES

	Colonial V	los <i>pitals-</i> Var Men		Hosp	ital. Si	ıva .			Beds 2 7 5
	Tamavua	Tuberci	ilosis	Hospi	ital Su	va.	• •	• •	313
	Mental H	ospital	S11 V2	Hospi	itti, Su	· · · · ·		• •	100
	Fiji Lepro	ospitai, t	ouva sital	Makos	rai	• •	• •		750
	_	_	mai,	MIAKUE	3a1	• •	• •	• •	730
District	Hospitals-								
	Lautoka								150
	Labasa								100
	Levuka								26
Suboidia	ad Waabita	do							
Suosiaiz	ed Hospita		TI	m:+a1 :	D _o				41
	Methodist	. Wiission	Mada	pitai,	Da .	· ·	• •	• •	41
	Nurse Mo	rrison's	mate:	rnity i	dome,	Suva	• •	• •	8
	Waiyevo								4
	Private H	ospital,	Colon	nai Sug	gar Kef	ining C	ompan	y, Ba	12
Rural H	ospitals—								
24077007 112	Wainibok	asi							51
	Waiyevo,				• •			• •	52
	Vunidawa			• •					30
					• •	• •	• •	• •	38
	Koromum			• •	• •	• •	• •	• •	
	Penang, H			• •	• •	• •	••	• •	25
	Nadi		• •	• •	• •	• •	• •	• •	26
	Nailaga, 1			• •	• •	• •	• •	• •	26
	Savusavu		• •	• •	• •	• •	• •	• •	40
	Vunisea,			• •	• •		• •	• •	26
	Lomalom					• •	• •		16
	Nabouwal					• •	• •		26
	Rotuma								12
	Lakeba, I	Lau							8
	Matuku								9
See Appe	endix v to	r detans	or or	птрать	circs.				
See Appe	endix VI f	or detail	s of i	npatie	nts.	_			
See Appe Disposit	endix VI f	or detail an and R	s of i	npatie	nts.	_			
See Appe Disposit	endix VI f ion of Urba — Suva Gao	or detail an and R l.	s of i	npatie	nts.	_			
See Appe Disposit	endix VI f ion of Urba — Suva Gao Samabula	or detail an and R l.	s of i	npatie Dispen	nts. s <i>arie</i> s—		V.		
See Appe Disposit In Suva	endix VI for of Urba — Suva Gao Samabula Tamavua	or detail an and R l. Outpati	s of i	npatie Dispen (Gener	nts. s <i>aries</i> — al) Dis	pensar			
See Appe Disposit In Suva	endix VI for single of Urba — Suva Gao Samabula Tamavua a District (or detail an and R l. Outpati ander D	s of i	npatie Dispen (Gener	nts. s <i>aries</i> — al) Dis	pensar _j	ausori)-		
See Appe Disposit In Suva	endix VI for some of Urba Suva Gao Samabula Tamavua of District (Beqa Isla)	or detail an and R l. Outpati ander D nd	s of i	npatie Dispen (Gener t Medi	nts. s <i>aries—</i> ral) Dis ical Off	pensar icer, N	ausori)- Iausori		
See Appe Disposit In Suva	endix VI for of Urba Suva Gao Samabula Tamavua 1 District (Beqa Isla Combined	or detail an and R l. Outpati and Schools	ents	npatie Dispen (Gener t Medi	nts. s <i>aries—</i> ral) Dis ical Off	pensary licer, No N	<i>ausori</i>)- Iausori Iavua	Clinic	
See Appe Disposit In Suva	endix VI factorial in the second seco	or detail an and R l. Outpati and Schools	ents	npatie Dispen (Gener t Medi	nts. s <i>aries—</i> ral) Dis ical Off	pensary icer, No N	ausori)- Iausori Iavua Iayavu	Clinic	
See Appe Disposit In Suva	endix VI factorial in the second seco	or detail an and R l. Outpati and Schools Tailevu	ents	npatie Dispen (Gener t Medi	nts. s <i>aries—</i> ral) Dis ical Off	pensary icer, Na N N S	ausori)- Iausori Iavua Iayavu erua Is	Clinic	sed Oct. 19
See Appe Disposit In Suva	endix VI for some of Urba Suva Gao Samabula Tamavua for District (Beqa Isla Combined Korolevu, Lodoni Lomaniko	or detail an and R l. Outpati and Schools Tailevu	ents	npatie Dispen (Gener t Medi	nts. s <i>aries—</i> ral) Dis ical Off	pensary licer, No N N S V	ausori)- lausori lavua layavu erua Is 'iria	Clinic	sed Oct. 19
See Appe Disposit In Suva	endix VI factorial in the second seco	or detail an and R l. Outpati and Schools Tailevu	ents	npatie Dispen (Gener t Medi	nts. s <i>aries—</i> ral) Dis ical Off	pensary licer, No N N S V	ausori)- Iausori Iavua Iayavu erua Is	Clinic	sed Oct. 19
See Appe Disposit In Suva Southern	endix VI for some of Urba Suva Gao Samabula Tamavua su District (Beqa Isla Combined Korolevu, Lodoni Lomaniko Mokani	or detail an and R l. Outpati and Schools Tailevu	ents istric , at I	npatie Dispen (Gener t Medi Lodoni th	nts. saries— ral) Dis ical Off	pensary licer, No N N S V	ausori)- lausori lavua layavu erua Is 'iria	Clinic	sed Oct. 19
See Appe Disposit In Suva Southern	endix VI for son of Urba Suva Gao Samabula Tamavua District (Beqa Isla Combined Korolevu, Lodoni Lomaniko Mokani District (District (Dis	or detail an and R l. Outpati and Schools Tailevu	ents istric , at I	npatie Dispen (Gener t Medi Lodoni th	nts. saries— ral) Dis ical Off	pensary icer, No N N S V	ausori)- lausori lavua layavu erua Is liria Varo, K	Clinic	sed Oct. 19
See Appe Disposit In Suva Southern	endix VI for some of Urbardian of Urbardian Gao Samabula Tamavua a District (Beqa Islan Combined Korolevu, Lodoni Lomaniko Mokani a District (Boau	or detail an and R l. Outpati and Schools Tailevu	ents istric , at I	npatie Dispen (Gener t Medi Lodoni th	nts. saries— ral) Dis ical Off	pensary icer, No N N S V Y	ausori)- lausori lavua layavu erua Is liria laro, K	Clinic	sed Oct. 19
See Appe Disposit In Suva Southern	endix VI factorial description of Urba in Suva Gao Samabula Tamavua in District (Beqa Isla Combined Korolevu, Lodoni Lomaniko Mokani in District (Bau Kabara	or detail an and R l. Outpati and Schools Tailevu	ents sistrices, at I	npatie Dispen (Gener t Medi Lodoni th	nts. saries— ral) Dis ical Off	pensary icer, Na N N S V Y	ausori)- lausori lavua layavu erua Is iria Yaro, K Coro loala.	Clinic	sed Oct. 19
See Appe Disposit In Suva Southern	endix VI for ion of Urbotal Suva Gao Samabula Tamavua District (Beqa Islat Combined Korolevu, Lodoni Lomaniko Mokani District (Bau Kabara District (District	or detail an and R l. Outpati and Schools Tailevu	ents sistrices, at I	npatie Dispen (Gener t Medi Lodoni th	nts. saries— ral) Dis ical Off	pensary icer, No N N S V Y K M cer, Law	ausori)- lausori lavua layavu erua Is Tiria Taro, K Coro loala. utoka)-	Clinic s. (clos adavu	eed Oct. 19
See Appe Disposit In Suva Southern	sendix VI for some of Urbar Suva Gao Samabula Tamavua substrict (Beqa Isla Combined Korolevu, Lodoni Lomaniko Mokani substrict (Bau Kabara District (Bau Korolevui Korolevui Korolevui Korolevui Korolevui Korolevui Korolevui substrict (Bau Kabara Substrict (Bau Korolevui Korolevui Korolevui Korolevui Korolevui Kabara Substrict (Bau Korolevui Kabara Korolevui Korolevui Korolevui Kabara Korolevui	or detail an and R l. Outpati and Schools Tailevu oro Lomaivita under Di wai	ents sistrices, at I	npatie Dispen (Gener t Medi Lodoni th	nts. saries— ral) Dis ical Off	pensary icer, No N N S V Y K M cer, Law	ausori)- Jausori Javua Jayavu erua Is Jiria Jaro, K Coro Joala. Jutoka)- Jatuatu	Clinic	ed Oct. 19
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See Appe Disposit In Suva Southern	endix VI ferion of Urba Suva Gao Samabula Tamavua District (Beqa Isla Combined Korolevu, Lodoni Lomaniko Mokani District (I Gau Kabara District (I Korolevui Nadarivat Nadi Airp	or detail an and R l. Outpati funder D nd Schools Tailevu oro Lomaivita under Di wai tu oort (adn	ents ents istric Nor	npatie Dispen (Gener t Medi Lodoni th district	nts. saries— ral) Dis ical Off	pensary icer, No N N S V Y K Cer, Lan N S S	Jausori)- Jausori Javua Jayavu Jayavu Jaro, K Jaro, K Jaro, K Jautoka) Javiti, Jautabu	Clinic	ed Oct. 19
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APPENDIX IV (b).

The following tables show the analysis of Inpatients and Outpatients for the year 1954.

1. CENTRAL AND DISTRICT HOSPITALS ADMISSIONS RACIAL DISTRIBUTION

Race	C.W.M. Hospital	Lautoka	Levuka	Labasa	Tamavua	Total
Fijians	 1,746 1,657 527 259	967 2,989 325 197	404 67 46 57	446 1,488 19 41	333 88 21 45	3,896 6,289 938 599
Total	 4,189	4,478	574	1,994	487	11,722

2. OUT-PATIENTS THROUGHOUT THE COLONY

Race	C.W.M. Hospital	Tamavua	3 District Hospitals	14 Rural Hospitals	Rural Dispensaries	Totals
Fijians	. 12,539 . 1,721	1,318 469 109 152	10,430 37,590 1,543 687	36,859 37,390 152 7,680	104,869 31,493 4,230 7,156	169,899 119,481 7,755 18,698
Totals	. 33,706	2,048	50,250	82,081	147,748	315,833

3. GENERAL AND RURAL HOSPITALS—ADMISSIONS.

Hospi	tals			Beds	Occupied Beds Daily Average	Admissions
Colonial War Memorial Hos	pital		 	275	232	4,189 487
Tamavua	••		 	313	295	
Three District Hospitals			 	276	190	7,046 6,588
Fourteen Rural Hospitals	• •		 	365		6,588
-	To	tals	 	1,229		18,310

4. COLONIAL WAR MEMORIAL HOSPITAL OUT-PATIENTS—SUVA AREA

Attended by				Fijians	Indians	Europ., etc.	Others	Totals
European Medical Officers Dental Department Eye Department A.M.P. Casualty Department . Samabula Dispensary	• •	••	• •	916 3,038 921 11,548 265	1,281 3,726 1,093 6,439 1,038	636 1,078 7	463 890 393 1,277 22	3,296 8,732 2,407 19,271 1,325
	Totals	••		16,688	13,577	1,721	3,045	35,031

APPENDIX V

COLONIAL WAR MEMORIAL HOSPITAL: SUVA

- 1. Staff—Medical Officer in charge, Surgeon Specialist, Medical Specialist, three general duties Medical Officers, two specialist Assistant Medical Practitioners, and four Assistant Medical Practitioners as resident housemen.
- 2. The Nursing Staff comprises, Matron, Assistant Matron, an average of twenty European Nursing Sisters, supplemented by locally trained staff nurses and student nurses.
 - 3. One nurse from Tonga and two from the Cook Islands were engaged in referesher courses.
- 4. Assistant Medical Practitioners' Out-Patients Department—This continues to be inadequate in structure. It is sited at a distance from the main hospital and supervision is difficult.
- 5. A plan has been put forward to convert a portion of the main building to an adequate free out-patient department where a Medical Officer and Sister can provide better supervision.
- 6. Casualty Department (Main Hospital)—This department is used for injections and incisions referred from Paying Out-Patient Department, for casualties after 4 p.m. and for severe accident and police cases at any time. This practice would be unnecessary if the new scheme for out-patients is approved.

7. Paying Out-Patient Department—There has been an increase in the sizes of all clinics.

Each morning 8.30 until 11 a.m... Medical Officer . . Afternoons—Monday Physicial Specialist Tuesday Orthopaedic clinic . . Wednesday ... Ward follow up. Surgical Thursday Surgeon Specialist . . Friday Physician Specialist.

8. Obstetric Ward—This ward has been under the charge of Dr. D. J. Oldmeadow. It is noteworthy that there were no maternal deaths out of 1,552 admissions in 1954, and that there were about 15 caesarean sections. This figure of one per cent is accepted as normal in the best obstetrical clinics. A detailed analysis follows:—

Овя	STETRIC	WARD			
No. of Admissions—		Fijians	Indians	Others	Total
Total No. of Admissions		509	908	134	1,552
No. of Births		454	723	129	1,306
No. of Normal Labour		408	578	119	1,105
Abnormal Births		46	145	10	201
As follows: Caesarian		6	9	1	16
Breech		4	17	$\overline{2}$	23
Brow			1		1
Face		1	3	1	5
Shoulder		1			1
Persistent Posterior		5	8	1	14
Multiple		9	8	1	18
Premature Births		12	63	3	78
Stillbirths		8	36	1	45
Complications—					
Toxaemia		6	64	3	73
Eclampsia			7		7
Ante-Partum Haemorrhage	• •	4	12		16
Post-Partum Haemorrhage	• '•	41	21	18	80
Retained Placenta	• •	4	5	1	10
Placenta Praevia		3	6	• •	9
Anaemia	• •	1	25		36
Pyelitis	• •		• <u>:</u>	• •	
Contracted Pelvis	• •	3	7	••	10
Intercurrent Infection	• •	26	23	3	52
Instrumental Cases	• •	6	12	• •	18
Deaths: Maternal	• •	• •			Nil
Neo-Natal	• •	4	33	. 2	39
Ante-Natal Clinic—		501	1 477	100	0.111
First Visits	• •	531	1,477	103	2,111
Return Visits	• •	1,887	3,228	316	5,731
Total		2,418	5,005	419	7,842

9. X-ray Department—Miss R. M. Mathews resigned and left the post of radiographer on June 30th. Mr. G. Tidswell took up duty as radiographer on 23rd October. Assistant Medical Practitioner K. Lal acted as radiographer.

Fluorescent tube lighting has been installed and improvement in the ventilation contributed to more comfortable working conditions.

This year showed an increase in the service of the department

				European	Fijian	Indian	Others
In-Patients				169	1,210	829	269
Out-Patients				847	3,934	3,665	933
Staff				70	162	61	44
No. of chest fil	ms			574	4,172	3,847	812
Total number of	of X-r	avs—1	1.856.		•	,	

10. Operating Theatre—The theatre block was reconditioned during a five week period in September and October during which no operations except emergencies were performed.

Operations performe	ed dur	ing th	ne year	at the Colonial War Memorial H	ospita	al.	
Head			•		_		4
Suture of scalp			1	Elevation of depressed fracture		1	
Elevation of Zygoma			2				
	-						
Ophthalmic							294
Injury to eye			1	Diaglia manain avalid		5	201
Extraction of lens	• •	• •	137	TO:	• •	77	
Excision of growth .	• •		1	Chuahianana aomaatian		2	
Enucleation		• •	4	Prolapsed iris	• •	1	
Extirpation of lachrymal		• •	î	Removal of cysts	• •	18	
Evisceration of eye .		• •	î	Removal of Foreign Body	• • •	3	
Iridectomy			11	Tarsoplasty	• •	17	
Cataract (needling)	• •	• •	8	Trephine	• •	7	
34042400 (220042118)	• •	•		22012	•	•	
D ()							0
Dental	• •	• •	• •		• •	• •	2
Extraction		• •	1	Excision osteomyelitis		· 1	
Ear, Nose and Throat.							62
Antrum lavage			4	Aural polyp		2	
Adenoidectomy	, .		$\dot{\hat{2}}$	Salivary calculus	• •	1	
Biopsy maxilla	• •		1	Repacking mastoid		1	
Mastoid radical and simp			13	Repair of cleft palate		î	
Laryngoscopy	. ,		5	Submucous resection		$\hat{6}$	
Cranio-pharyngioma			1	Tonsil dissection		16	
Nasal polyp			9				
1 01							
Thomaid						=	
Thyroid	• •	• •	• •		• •	5	
Subtotal thyroidectomy	• •	• •	3	Thyroid adenoma	• •	2	
Breast						*	- 8
Simple mastectomy			4	Sinus of breast		1	
Biopsy		• •	1	Wedge resection for papilloma		$\hat{1}$	
Cyst adenoma			1	· · · · · · · · · · · · · · · · · · ·			
Chaot							15
Chest	• •	• •		De alling a soit	• •	• •	13
Aspiration of pleural cav	ıty	• •	$\frac{2}{2}$	Repacking cavity	• •	4	
Thoracoplasty	• •	• •	$\frac{3}{2}$	Repair of chest wound Removal neurofibroma	• •	1	
Packing pleuralspace	• •	• •	1	Removal safety pin from traches	• •	1 1	
Rib resection drainage	• •	• •	1	Kemovai safety più from trachea		1	
Gastro-Intestinal							177
Appendicectomy			71	Perforated ulcers		5	
Drainage appendix absce	SS.		6	Perforated small intestine		1	
Cholecystectomy			2	Pyloric stenosis (Ramstedt) .*		1	
Colostomy			4	Vagotomy		3	
Closure of colostomy			1	Haemorrhoidectomy	٠	13	
Dilation of anus		• •	1	Intussusception		4	
Abdominal abscesses			3	Laparotomy (various)		14	
Entero-enterostomy			$\frac{2}{2}$	Oesophagoscopy	• •	2	
Meckels diverticulum	• •	• •	2	Rt. Hemicolectomy	• •	1	
Adenoma of umbilicus	• •	• •	1	Rectal stricture	• •	1	
Fistula in ano	• •	• •	11	Splenectomy		16	
Partial gastrectomy	• •	• •	$\frac{4}{3}$	Sigmoidoscopy	• •	10	
Gastro-enterostomy	• •	• •	3				
Hernia Repairs	٠. ,						56
Inguinal hernia	'		43	Strangulated		6	
Epigastric			1	Umbilical		1	
Incisional			3	Femoral		2	
Elephantiasis of Scrotum							8
Diophanicasis of Solotani	• •	, ,					
Diathermy							10
Decorror in 11							
Cerviy			2	Rodent ulcer of ear		3	
Cervix Bladder			$\frac{2}{4}$	Rodent ulcer of ear Wart on foot		3	

								157
Gynaecology	• •	• •	0 1	• •	• •	• •	• •	157
Biopsy cervix	• •	2	Oophorectomy			• •	- 7	
Colpo-perineorrhaphy	• •	3	Repair recto-vag	ginal fisti	ula .	• •	I	
Dilatation and Curettage		77	Haematocolpos	• •	• •	. • •	1	
Examination under anaesthetic		4	Lacerated vagin		• •	• •	1	
Vaginal fistula		1	Salpingectomy		• •	• •	6	
Pre-sacral dermoid cyst		1	Sterilization				2	
Fothergill's operation		1	Vaginal hystered	ctomy			2	
Gilliam's ventro suspension		3	Ventro fixation				3	
Hysterectomy		8	Repair bicornate	e uterus			1	
Hysterotomy		5	Ectopic pregnan				4	
Pelvic abscess		1	Caesarian section				16	
Myomectomy		3	Manual removal				5	
	••			or place		• •		
Genito Urinary								134
Circumcision		1	Heminephrecton				1	
Createsasses		48	Nephrectomy .				î	
Cystoscopy	• •	1	Pyelolithotomy		• •	• •	3	
	• •	1			• •	• •	1	
·	• •	1	Plastic to renal		• •	• •		
Irrigation of bladder	• •	1	Spermatocoele.		• •	• •	2	
Excision of hydrocoele	• •	17	Prostatectomy		• •	• •	9	
Excision of spermatocoele		1	Suprapublic cys		• •	• •	11	
Incision of septic hydrocoele	• •	2	Urethral dilatati	ion	• •	• •	29	
Nephrolithotomy		1						
								00
Orthopaedic				_ :	• •	• •	• ;	69
Amputations—fingers, toes, limb		18	Bone grafts—T.				1	
Biopsy clavicle		1	Osteotomy				2	
Exploration fracture humerus		1	Plating fractures	s			2	
Exploration fracture supracondy	lar	1	Removal of calc	aneal sp	ur		1	
Insertion Kirschner wire		4	Removal of tum	our of n	naxilla		1	
Insertion Smith Peterson nail		3	Removal of F. I				2	
Insertion Steinmann's pin .		1	Removal of head				1	
Sequestrectomy		15	Removal of bon				1	
Manipulation joints		1	Reduction of fra				4	
McMurray's osteotomy	• •	î	Tendon repair.				3	
Manipulations		4	Shortening pate		ent		1	
manipulations	• •	7	Shortening pate.	na ngam	ent.	• •	1	
Minor Operations								123
	••	• •	••	••	• •	••		
Radium	• •							22
To cervix		11	To bladder				1	
rectum		2	neck				2	
cheek		4	hip				1	
breast		1						
Lumbar sympathectomy	• •	• •	•• ••	• •	• •	• •	• •	1
Skin grafts, etc.								22
	• •	• •	•• •• ••	••	• •	• •	• •	
Total number of operations								1,168
Amanothating 1054					Total			1.077
Anaesthetics 1954	• •	• •	•• ••	• •	Total	• •		1,077
General	• •	• •	•• •• ••	• •	• •	• •	556	
Local	• •	• •		• •	• •	• •	337	
Intravenous alone	• •	• •	•• •• ••	• •	• •	• •	176	
Spinal	• •	• •		• •	• •	• •	2	
Intratracheal							6	
Laboratory specimens							228	
11 Laundan The weath in	41	1 d			mina the	****	1.00	23 111

11. Laundry—The work in the laundry continued to increase during the year. 1,354,111 articles were dealt with, which is an increase of 77,239 over 1953. In addition 35,351 articles were repaired in the sewing room.

Linen counts have been carried out at three monthly intervals and it is hoped to establish a central linen store in the near future.

12. Finance—Total revenue of the hospital for 1954 was £7,795 5s. 0d. This showed an increase of 23 per cent over 1953.

•						
Hospital In and Out Patient Fee	es		• •	£4,172	0	0
X-ray Fees /				760	0	0
Dental Fees				1,660	5	0
6d. Fees collected in Out-Patie	ents Depa	artment	for			
medicines				300	0	0
Medical Preparations				230	0	0
Fees paid at other Centres				335	0	0
Fines, Court costs, Gifts, Exchai	nge on Cl	heques,	etc.	338	0	0
	Total			£7,795	5	0

13. Deaths—A list of deaths occurring in the Colonial War Memorial Hospital is noted below:—

Tuberculosis of—respiratory system 3 3 1	-				T	771.11	T 11	0.1
respiratory system meninges and central nervous system 3 4 1 Tuberculosis, all other forms	Tuberculosis of—				Europeans	Fijians	Indians	Others
meninges and central nervous system						3	3	1
Tuberculosis, all other forms								
Whooping cough 1	Tuberculosis, all other forms			• •		•		1
Malignant neoplasm of— buccal cavity and pharynx 1 1 1 1 1 1 1 1 1				• •	•	1	1	2
Malignant neoplasm of— buccal cavity and pharynx				• •	•	1		;
Duccal cavity and pharynx	retainus	• •	• •	• •	•	3	3	1
Duccal cavity and pharynx								
Stomach						1		
stomach					1	1	•	•
Intestine	1			• •		3	•	•
rectum							i	·
Done and connective tissue	rectum						1	
Diabetes mellitus	uterus	• •	• •	• •	•	1	•	;
Leukaemia and aleukaemia			• •		•	l 1	•	1
Diabetes mellitus					1	1		4
Diabetes mellitus 1 1 1 1 1 1 1 1 1 1 2 1 3 1 Vascular lesions affecting C.N.S. 1 4 7 3 Nonmeningococcal meningitis 5 1 . 1 . Chronic rheumatic heart disease . 1 1 .			• •			i		
Vascular lesions affecting C.N.S. 1 4 7 3 Nonmeningococcal meningitis 5 1 . Otitis media and mastoiditis . 1 . All other diseases of the nervous system and sense organs . 1 . . Chronic rheumatic heart disease . 1 3 .					1	1	1	•
Nomeningococcal meningitis					•	1		•
Otitis media and mastoiditis 1 All other diseases of the nervous system and sense organs 1 Chronic rheumatic heart disease 1 Arteriosclerotic and degenerative heart disease 4 Other diseases of heart 2 Hypertension with heart disease 1 Other diseases of circulatory system 1 Lobar pneumonia 1 Bronchopneumonia 1 1 4 Bronchopneumonia 1 1 4 Caute bronchitis 1 1 1 Caute bronchitis 1 1 1 Castro-enteritis andcolitis— 2 between 4 weeks and 2 years 5 2 2 2 1 2 1 2 1 2 1 2 1 3 1 4 1 5 1 6 1 2 1 <				• •	1		7	3
All other diseases of the nervous system and sense organs					•	5	1	•
Sense organs	Ottus media and mastolulus	••	• •	• •	•	•	1	•
Sense organs	All -4h 1i C (1			1				
Chronic rheumatic heart disease			_			1		
Arteriosclerotic and degenerative heart disease					•	1	$\dot{\tilde{3}}$	•
Other diseases of heart 2 1 5 Hypertension with heart disease 1 2 Other diseases of circulatory system 1 Lobar pneumonia 1 <						$\tilde{4}$		•
Hypertension with heart disease 1	Other diseases of heart				2	1		
Lobar pneumonia	Hypertension with heart disea	ise	• •	• •		1	$\frac{2}{1}$	
Bronchopneumonia	Other diseases of circulatory s	ystem			· 1	· 1	1	•
Other and unspecified pneumonia 1 Acute bronchitis 1 Vulcer of—stomach 2 stomach 2 Duodenum 1 Appendicitis 1 between 4 weeks and 2 years 5 between 4 weeks and 2 years 5 1 2 Cirrhosis of liver 1 1 2 Cirrhosis of liver 1 1 2 Cholelithiasis and cholecystitis 3 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 3 3 3 3 4 2 4 2 4 1 4 1 4	Bronchoppeumonia	• •					14	• •
Victor of								·
Stomach 2							1	
Stomach 2							`	
Duodenum	Ulcer of—							
Appendicitis						2		•
Gastro-enteritis andcolitis— 5 1 1 between 4 weeks and 2 years 5 1 1 2 weeks and over 1 1 . Cirrhosis of liver 1 2 1 1 Cholelithiasis and cholecystitis Other diseases of digestive system 3 3 1 . </td <td></td> <td>• •</td> <td>• •</td> <td></td> <td>•</td> <td>1</td> <td>3</td> <td>•</td>		• •	• •		•	1	3	•
between 4 weeks and 2 years	Appendicitis	• •	••	• •	•	1	•	•
between 4 weeks and 2 years								
2 weeks and over 1						Pr.	4	4
Cirrhosis of liver 1 2 1 1 Cholelithiasis and cholecystitis Other diseases of digestive system Acute nephritis <t< td=""><td></td><td></td><td></td><td></td><td>•</td><td></td><td>1</td><td>1</td></t<>					•		1	1
Cholelithiasis and cholecystitis					1		i	i
Other diseases of digestive system 3 3 1 Acute nephritis 1 1 1 Chronic nephritis 3 3 . Calculi of urinary system 1 1 . Hyperplasia of prostate 1 .								
Acute nephritis 1						3	3	1
Calculi of urinary system 1 1 1 Hyperplasia of prostate 1 1 1 All other diseases of—	Acute nephritis					1		
All other diseases of— 1 4 2 genito-urinary system 1 4 2 musculo-skeletal system 1 . . Birth injuries 1 . . Diarrhoea of newborn 1 . . All other diseases of early infancy 1 4 . Ill-defined diseases peculiar to early infancy and immaturity 2 . . Senility 1 . . 1 . Fracture of— 2 .					•	•		•
All other diseases of— genito-urinary system					1	•		•
genito-urinary system 1 4 2 musculo-skeletal system 1 . . Birth injuries 1 . . Diarrhoea of newborn All other diseases of early infancy .	Tryporplasia of prostate			• •			•	
genito-urinary system 1 4 2 musculo-skeletal system 1 . . Birth injuries 1 . . Diarrhoea of newborn All other diseases of early infancy .	All other diseases of							
musculo-skeletal system 1						1	4	2
Birth injuries 1					•	1	•	•
All other diseases of early infancy	Birth injuries				•	1	•	
Ill-defined diseases peculiar to early infancy and immaturity	Diarrhoea of newborn							
immaturity					•	1	4	•
Senility							2	
Fracture of— 2 skull					•		1	
skull <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
skull <td< td=""><td>Fracture of</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Fracture of							
spine and trunk						2		,
Limbs			• •				1	
Dullio 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Limbs		• •		•	:		1
Effects of poisons		• •	• •		•	2	2	•
	Effects of poisons	••	• •	• •	•	•	1	•

APPENDIX VI (a)

TUBERCULOSIS DIVISION—1954

- 1. Dr. L. G. Poole, M.B., Ch.B., D.P.H., returned from leave and resumed duties as Tuberculosis Control Officer. Dr. G. D. Murphy, M.B., Ch.B., continued as Medical Officer-in-Charge, Tamavua Hospital.
- 2. Tuberculosis Control—A register of all new cases of tuberculosis that are notified is kept by the Epidemiological Section of the Medical Department.

					1952	1953	1954
Europea	an			 	3	11	11
Part-Eu	irope	an		 	9	7	16
Fijian				 	301	359	410
Indian				 	95	93	170
Others				 	45	28	54
			Total	 	453	498	667

- 3. Tamavua Tuberculosis Hospital—Tamavua Hospital consists of five large wards with a verandah along one side and end of each ward. A thirty-two bed ward was brought into use during the year: this building and the equipment were gifts from the Fiji War Memorial Anti-Tuberculosis Trust Fund. In addition there is a four-bed ward which is in use for post-operative surgical cases, and a few single rooms. A recreation room is available for the showing of films and for other forms of organized entertainment. The kitchen provides a minimum of one thousand meals per day.
 - 4. Hospital Returns and Statistics—1953 and 1954.

	Euro	European		Part-Europ.		Fijian		Indian		Others		Total	
	1953	1954	1953	1954	1953	1954	1953	1954	1953	1954	1953	1954	
Admissions		4 3	12	17 15	253 32	333 253 33	67	88 70 7	25 ₂	45 32 2	360 248 53	487 373 42	
Old cases re-admitted Old cases transferred to Rural						••				••	58	123	
Hospitals					• •	••	••	•••		••	6	50	
or urgent operation Daily average number of In-	•		••		• •	• •				• •	18	22	
patient In hospital on 31/12/53							••			::	262 270	295 304	

A small non-tuberculous Out-patients' Department operates for treating emergencies and the minor ailments of the staff and of the Fijians and Indians living in the neighbourhood. Ordinary cases are seen daily between 8 a.m. and 9 a.m.—emergencies, at any time.

- 5. Tuberculosis Out-Patient Department—The Tuberculosis Out-patient Department is extremely busy as it deals with cases for investigation and review, collapse therapy refills, and also maintains a Chest X-ray interpretation service for the Southern area. The work of this department is increasing annually, due to the greater emphais which is being placed on the prevention of spread of this disease.
- 6. The number of people attending for investigation or review was 1,285 in 1952, 2,058 in 1953, and 2,048 in 1954. A reduction from 14,095 in 1953, to 10,639 in 1954, in the films received for interpretation from other hospitals was brought about by the tuberculosis wards in the Northern and Western areas inaugurating their own film interpretation service.
- 7. Laboratory—The laboratory at Tamavua Hospital is staffed by four Fijian technicians under an Assistant Medical Practitioner, and is equipped to carry out routine sputum and blood examinations on patients and staff. Other more elaborate investigations are referred to the central laboratory at Suva.

Comparison of the examinations made during 1952, 1953 and 1954.

		Sputum		P	.L. Swa	ıb		xno		Ble	ood Exa	aminatio	on	nens to Lab.	Pig ation
Year	Dir.	Conc.	Cult.	Dir.	Conc.	Cult.	BSR	Mante	BCG	FBC	НВ.	HB. RBC. WBC.	Total	Specin sent Suva]	Guinea Inocula
1952 1953 1954	7 507	32 56 181	104 135 24	694 531 1,666	31 86 431	111 175 245	2,179 3,654 3,594	559 379 287	21 78	725 170 461	4	40 574 240	769 744 701	708 685 927	10

A Mobile static X-ray unit, capable of working at 200 ma and equipped with Tomography and mass miniature attachments, is installed at the Hospital. X-ray exposures are made at the bedside with the use of a Watson Victor D.3 Unit. The exposures and developing process are undertaken by three Fijians who are being trained locally.

The returns of the X-ray Department follow:—

Year		Fijians			Indians		Europeans P/European			Rotumans			Others			T-4-1			
1 cai	IP.	OP.	ST.	IP.	OP.	ST.	IP.	OP.	ST.	IP.	OP.	ST.	IP.	OP.	ST.	IP.	OP.	ST.	Total
1952 1953 1954	653 1,254 1,401	706 1,275 1,474	303 563 595	231 356 358	309 478 620	21 116 60	3 25 11	43 81 94	35 63 50	40 39 80	51 57° 72	7 12 19	43 67 37	40 41 48	16 12 18	70 59 99	86 126 126	3 5 9	2,660 4,629 5,161

IP. = In-Patient. OP. = Out-Patient. ST. = Staff

- 8. A dental clinic for in-patients of Tamavua Hospital was established at the Hospital in 1952, and has been fully equipped by the Anti-Tuberculosis Fund. At least two dental sessions were held each week during the period under review.
 - 9. In the Operating Theatre the following procedures were carried out during 1954:—

Apicolysis with polythene ba	all plor	nbage	 	 30
Phreniclasis			 	 111
Lung decortication			 	 1
Empyema Drainage			 	 2
Appendicectomy			 	 1
Circumcisions			 	 3
Artificial Pneumothorax			 	 8
Pneumo peritoneum			 	 109
Artificial Pneumothorax refi	lls .		 	 351
Pneumoperitoneum refills			 	 8,291

- 10. The Occupational Therapy Section continues to prove popular with the patients. One of the main items produced is a chair with a cane back and seat. Patients are engaged in making the seats and backs; other items made are baskets and walking sticks. Knitting, embroidery, and crochet work is given to the bed patients, and all take a keen interest. Assistance in these last named occupations was given by members of the Fiji branch of the British Red Cross Society who attended the hospital each week.
- 11. Motion pictures have been shown each week for the benefit of the patients. Local amateur organizations gave concerts during the year and their voluntary efforts have been greatly appreciated by the patients and staff.
- 12. St. Andrews' Guild visited the Hospital prior to Christmas and distributed gifts to all patients. The Hospital Christmas tree was held on Christmas morning and gifts which were purchased from the Patient's Comfort Fund, and Occupational Therapy profits were distributed to each patient in the Hospital.
- 13. At the Tamavua Hospital Plantation during the year 1954, root crops and vegetables were harvested to the value of £1,123 8s. 7d., 3,084 dozen eggs valued at £969 3s. 2d. were obtained from the poultry farm.

ANTI-TUBERCULOSIS CAMPAIGN

- 14. Preliminary tuberculosis survey in Fiji was commenced in 1950 and completed in 1953. An analysis of 32,694 Mantoux reactions, obtained on Viti Levu, Ovalau, Beqa, Rotuma and Rabi Islands is recorded in the following tables.
- 15. The B.C.G. programme originally commenced as part of the Mantoux survey, was continued throughout the year. Emphasis was placed on training Assistant Medical Practitioners and Health Sisters in the technique of B.C.G. Vaccination.
- 16. The Mobile mass miniature X-ray unit, which was a gift from the Fiji War Memorial Anti-Tuberculosis Trust Fund, became fully operative during the latter half of the year and made a very successful tour of the Western District from Tavua to Sigatoka. More than 5,600 chest X-rays were taken of the people in the towns, and villages of the area. The cinematograph projector, which is attached to this unit proved a great asset and was employed in showing educational health films with unqualified success.
- 17. The hospital accommodation for the tuberculous was increased during 1954 by an additional ward of 32 beds at Labasa. A similar ward at Tamavua Hospital was also brought into use of patients. Both these wards and the equipment were gifts from the War Memorial Anti-Tuberculosis Trust Fund. There were 392 beds in recognized tuberculosis wards at December 31st,

MANTOUX INDICES

- 18. Mantoux reactions obtained 1/10 c. c. of 1 in 1,000 dilution of old tuberculin—
- 1. FIJIANS—These mantoux reactions were obtained from people living on Viti Levu, Ovalau, and Beqa:—

	В	отн sexi	ES		MALES		FEMALES			
AGE GROUP	Number Examined	Number Positive	Percentage Positive	Number Examined	Number Postive	Percentage Positive	Number Examined	Number Positive	Percentage Postitive	
0— 1 1— 2 2— 3 3— 4 4— 5 5— 6 6— 7 7— 8 8— 9 9—10 10—11 11—12 12—13 13—14	201 413 398 564 465 459 630 650 714 664 755 689 675 678	4 24 30 57 82 96 161 177 225 262 356 356 365 409	1.99 5.81 7.61 10.11 17.63 20.92 25.56 27.23 31.51 39.46 47.15 51.67 54.07 60.32	105 212 209 321 230 206 316 333 373 344 387 364 379 384	1 14 16 34 39 33 86 100 109 143 173 192 202 242	0.96 6.60 7.66 10.59 16.96 16.02 27.22 30.03 29.22 41.57 44.70 52.75 53.30 63.02	96 201 185 243 235 253 314 317 341 320 368 325 296 294	3 10 14 23 43 63 75 77 116 119 183 164 163	3·13 4·98 7·57 9·47 18·30 24·90 23·89 24·29 34·02 37·19 49·73 50·46 55·07 56·80	
All Ages	7,951	2,604		4,163	1,384		3,788	1,220		

2. EUROPEAN, EURONESIAN AND OTHER RACES

ACE CROUD	E	UROPEAN	Ţ	PAR	T-EUROP	EAN	OTHERS			
AGE GROUP	Number Examined	Number Positive	Percentage Positive	Number Examined	Number Postive	Percentage Positive	Number Examined	Number Positive	Percentage Postitive	
0— 1 1— 2 2— 3 3— 4 4— 5 5— 6 6— 7 7— 8 8— 9 9—10 10—11 11—12 12—13 13—14	2 1 5 4 9 31 38 41 49 49 42 29 34 29	0 0 0 0 0 3 6 4 3 4 7 8 10	9·68 15·79 9·76 6·12 8·16 16·67 27·59 29·41 24·14	0 3 6 10 8 34 78 91 109 92 115 76 65 74	0 1 0 2 1 1 11 17 15 20 35 29 31 39	33·33 20·00 12·50 2·94 14·10 18·68 13·76 21·74 33·91 38·16 47·69 52·70	1 6 1 7 3 16 22 28 44 44 46 61 56 64	0 0 0 2 0 3 3 6 12 11 21 27 32 30	28·57 18·75 13·64 21·43 27·27 25·00 45·65 44·26 57·14 46·88	
All Ages	363	52		761	206		399	147		

3. BANABANS: Living on Rabi Island.

AGE GROUP	BOTH SEXES			MALES			FEMALES		
AGE GROUP	Number Examined	Number Positive	Percentage Positive	Number Examined	Number Postive	Percentage Positive	Number Examined	Number Positive	Percentage Postitive
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	30 25 20 14 13 24 16 24	4 7 7 8 13 11 15 8 9 20 14 20 14	16·00 18·92 20·59 44·44 43·33 44·00 75·00 57·14 69·23 83·33 87·50 83·33 87·50 73·91	11 14 14 26 10 17 13 13 6 7 12 9 12 8 8	2 1 4 5 9 5 10 2 5 10 8 10 8	14·29 7·14 15·38 50·00 52·94 38·46 76·92 33·33 71·43 83·33 88·89 83·33 100 62·50	9 11 23 8 8 13 12 7 8 6 12 7 12 8	2 6 3 3 4 6 5 6 4 10 6 10 6	18·18 26·09 37·50 37·50 30·77 50·00 71·43 75·00 66·67 83·33 85·71 83·33 75·00 80·00

4. FIJIAN RACE

AGE GROUP	В	OTH SEXI	ES		MALES		FEMALES				
AGE GROUP	Number Examined	Number Positive	Percentage Positive	Number Examined	Number Postive	Percentage Positive	Number Examined	Number Positive	Percentage Postitive		
0— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54 55—59 60—64 65 All Ages	778 818 710 624 435 416 380	181 894 1,833 1,085 681 746 673 598 423 405 367 180 270 256 8,592	9·51 28·79 53·71 76·30 87·53 91·20 94·79 95·83 97·24 97·36 96·58 94·24 97·12 95·17	1,005 1,641 1,901 737 290 330 306 324 204 218 173 120 160 193 7,602	97 466 1,007 579 252 309 294 311 200 213 168 114 153 182 4,345	9·65 28·40 52·97 78·56 86·90 93·64 96·08 95·99 98·04 97·71 97·11 95·00 95·63 94·30	898 1,464 1,512 685 488 488 404 300 231 198 207 71 118 76 7,140	84 428 826 506 429 437 379 287 223 192 199 66 117 74 4,247	9·35 29·23 54·63 73·87 87·91 89·55 93·81 95·67 96·54 96·97 96·14 92·96 99·15 97·37		

5. INDIANS

	В	OTH SEXI	ES		MALES		FEMALES			
AGE GROUP	Number Examined	Number Positive	Percentage Positive	Number Examined	Number Postive	Percentage Positive	Number Examined	Number Positive	Percentage Postitive	
0— 4 5— 9	680	135 1,335	19.85	344 2,352	63 617	18·31 26·23	336	72 718	21·43 33·69	
10—14	4,483 3,959	1,621	29·78 40·94	2,249	928	41.26	2,131 1,710	693	40.53	
15—19 20—24	916 418	686 337	74·89 80·62	605 230	494 200	81·65 86·96	311 188	192 137	61·74 72·87	
25—29	317	260	82.02	182	156	85.71	135	104	77.04	
30—34 35—39	273 211	224 184	82·05 87·20	145 132	124 113	85·52 85·61	128 79	100 71	78·13 89·87	
40—44	133	117	87.97	78	68	87.18	55	49	89.09	
45—49 50—54	64 72	59 65	92·19 90·28	41 45	39 41	95·12 91·11	$\begin{array}{c} 23 \\ 27 \end{array}$	20 24	86.96	
55—59	65	63	96.92	43	41	95.35	22	22	100	
60—64 65	99 42	89 41	89·90 97·62	80 32	70 32	87.55	19 10	19 9	100	
All Ages	11,732	5,216		6,558	2,986		5,176	2,230		

6. EUROPEAN, EURONESIAN AND OTHER RACES

AGE GROUP	I	EUROPEAN	V	PAF	RT-EUROP	EAN	OTHERS			
AGE GROUP	Number Number Percentage Positive Positive		Number Examined	Number Postive	Percentage Positive	Number Examined	Number Positive			
0— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54 55—59 60—64 65 All Ages	39 2 8 6 11 3 3 1 0 0	0 20 40 12 0 8 3 4 1 2 1 0 0	11·83 26·14 30·77 100 50·00 36·37 33·33 66·67 100	27 398 388 89 8 3 1 2 2 0 0 0 0 918	3 64 162 53 2 3 0 1 2 0 0 0 0 0	11·11 16·08 41·75 59·55 25·00 100 50·00 100	18 155 281 134 24 5 2 2 3 0 1 1 631	7 26 196 119 20 5 2 2 3 2 3 0 1 1 387	38·89 16·77 69·75 88·81 83·33 100 100 100 100 100 100 100	

7. ROTUMANS: Living on Rotuma Island

AGE GROUP	В	OTH SEXE	ES		MALES	,		FEMALES	
AGE GROOT	Number Examined	Number Positive	Percentage Positive	Number Examined	Number Postive	Percentage Positive	Number Examined	Number Positive	Percentage Postitive
0— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54 55—59 60—64	34 29	7 68 116 126 172 159 119 148 78 101 67 28	1·58 14·08 29·07 45·82 69·92 85·48 89·47 90·80 87·64 94·39 90·54 82·35 93·10	227 234 203 139 116 95 66 82 57 34 20 16	6 45 60 70 79 79 63 78 57 31 18	2·64 19·23 29·56 50·36 68·10 83·16 95·45 95·12 100 91·18 90·00 87·50	216 249 196 136 130 91 67 81 89 50 40 14	1 23 56 56 93 80 56 70 72 44 36 10	0·46 9·24 28·57 41·18 71·54 87·91 83·58 86·42 87·64 88·00 90·00 71·43
65 All Ages	2,591	1,243	90.00	1,313	622	91.67	1,378	621	83.33

8. BANABANS: Living on Rabi Island

ACE CROUD	В	отн sexe	ES		MALES		FEMALES			
AGE GROUP	Number Number Percentage		Number Examined	Number Postive	Percentage Positive	Number Examined	Number Positive	Percentage Postitive		
0— 4 5— 9 10—14 15—19 20—24 25—29 30—34 35—39 40—44 45—49 50—54 55—59 60—64	102 103 60 73 60 51 41 37 23 22 10 15	26 56 85 55 70 58 50 41 37 23 22 9 15	19·40 54·90 82·52 91·67 95·89 96·67 98·04 100 100 100 100 100	75 56 49 37 37 44 24 23 17 15 15 7 5	12 31 41 33 35 44 24 23 17 15 15 7 5 4	16·00 55·36 83·67 89·19 94·59 100 100 100 100 100 100 100	59 46 54 23 36 16 27 18 20 8 7 3 10 7	14 25 44 22 35 14 26 18 20 8 7 2 10	23·73 54·35 81·48 95·65 97·22 87·50 96·30 100 100 100 100 100 100 100 100 100 1	

APPENDIX VII

MENTAL HOSPITAL

- 1. The overcrowding previously reported continued throughout the year. The first Mental Hospital in Suva was apparently opened in the year 1896 and was located near the present site. Fifteen patients were then recorded. The first ward of the present hospital was built in 1913 and records show 31 patients were present. During the 1920's the average patient population increased to 69 and rose to 80 in the 1930's. Since then the hospital has been overcrowded as it is designed to accommodate only 80 patients. By 1950 the population reached 94 patients and in that year the orderlies were increased from 17 to 19. For the past two years the average number of patients has been 139. This means that many must be accommodated on verandahs even during inclement weather.
- 2. Pending approval of an additional building a policy of early discharge on trial has been adopted whenever possible. In spite of this the present overcrowding of patients on verandahs requires additional constant supervision. Fifty-one cases were allowed out on trial in 1954 bringing the total number out on trial up to 101.

3.	Details of staff are as follows:—						
	Medical Superintendent		2 Fema	ale Fiji	an Ord	erlies	
	Head Attendant		6 Male	Fijian	Orderl	ies	
	Assistant Attendant		5 Male	Samoa	n Orde	erlies	
	6 Female Samoan Orderlies		2 Male	Indian	Cooks		
4.	The following table/shows admission	ns and	dischar	rges for	1954:		
	Remaining in hospital at end of	1953				139	
	Admitted during 1954					61	
							200
	Discharged during 1954					2	
	Absent on trial during 1954.					51	
	Died in institution during 1954					8	
	Remaining in hospital at end of	1954				139	
						 .	200

5. The following table shows the length of time of residence of the patients remaining in the Mental Hospital at the end of 1954:—

Number of Years				Males	Females	Total
0 to 1 years				21	17	38
1 to 5 years				28	19	47
5 to 10 years				10	12	22
10 to 15 years				4	4	8
15 to 20 years				10	3	13
20 to 25 years				2	4	6
25 to 30 years				2	1	3
30 years and over				2		2
					(-	
				79	60	139
1 1 1 1.	1	' C 1	C 11			

6. The patients have been classified as follows:—

Classification		irea ae	10110 110	•	Number	Deaths
Manic depressive p	sychosi	s			 50	1
Schizophrenia .					 103	1
Amentia					 10	1
Epilepsy					 11	2
Senility					 22	3
Spastic diplegia					 2	
Alcoholism					 1	
Involutional Melan	ncholia				 1	
					200	8

7. The percentage racial distribution and sex of patients is as follows:—

			Males	Females	Total	Percentage
Europeans	S .	 	13	5	18	9
Fijians		 	25	18	43	21.5
Indians		 ,	62	63	125	62.5
Others		 	10	4	14	7.0

8. The deaths which occurred at the institution were from the following causes and in the following classes:—

General Condition Cause Senile Dementia Myocarditis. Senile Dementia Cerebrovascular haemorrhage Senile Dementia Lobar pneumonia Status epilepticus Epileptic Epileptic Broncho pneumonia Schizophrenia . Cardiac failure . . Asphyxia due to hanging Mental defective Manic depressive Asphyxia due to hanging. . .

9. The following table shows the nationality and sex of the various patients:—

		Europ	eans	Fiji	ans	Indi	ans	Oth	ers	То	tal	Total
Remaining at end of 1953 Admitted during 1954	- 1	м. 9 4	F. 3 2	м. 20 5	F. 14 3	м. 42 20	F. 40 24	м. 7 3	ғ. 4 	м. 78 32	F. 61 29	м. & ғ. 139 61 200
Absent on trial during 1954 Discharged in 1954 Died during 1954 Remaining at end of 1954		3 1 1 8	14	7 2 18	8 1 8	14 2 45	16 1 2 43	2 8	· · · · · · · · · · · · · · · · · · ·	26 1 5 79	25 1 3 60	51 2 8 139 200
Total number absent on trial inc those absent on trial during 1	luding 954	3	4	12	15	29	26	2		46	45	101

- 10. A new electro-convulsive machine was acquired and 56 patients received treatments.
- 11. Visits were paid by the Board of Visitors on 1st April, 1954, 24th June, 23rd September, 1954. The December meeting was held on the 13th January, 1955.
 - 12. Gifts to the institution were made as follows:—

Mr. and Mrs. Sahu Khan, sweets and Indian pudding to each patient.

Dr. Williams, a parcel to each patient consisting of sweets, tooth brush, scent and soap. Mrs. Bernard and Dr. Williams, soft drinks, sandwiches and cakes to each patient.

Mr. Miller (British Council), screening of films.

St. Andrew's Presbyterian Xmas Cheer Fund, canned fruit, juices and sweets to each patient.

M. Ali Uddan, a sack of mangoes, water melons and sweets for all the patients on Xmas day.

Messrs. Lalji and Magee, Indian sweet meat to all patients.

APPENDIX VIII (a)

FIJI LEPROSY HOSPITAL, MAKOGAI

- 1. Staff Changes—Dr. W. H. McDonald, Medical Superintendent proceeded on overseas leave on 31st May.
- Dr. D. Keating-Clay acted as Medical Superintendent from 16th June to 28th December, 1954.

Sister Mary Hilda who had been Sister-in-Charge since 1948, and Sister Mary Gabrielle, stationed at Makogai since 1936, went on leave on 31st May prior to resignation. The latter has joined Sister Mary Suzanne at her laboratory in France and is continuing her work on leprosy there.

Sister Mary Felicitas assumed duty as Sister-in-Charge when Sister Mary Hilda departed from Makogai.

Five Sisters joined the staff from overseas: Sister M. Prisca, Sister M. Valentine, Sister M. Carmel, Sister M. Alcime, Sister M. Rosaire, while Sister M. Gianclaudia for reasons of ill-health, did not continue her service at Makogai, and Sister M. Paulita who left on 18th October was replaced by Sister M. Henry from Suva.

- 2. Teaching—Assistant Medical Practitioners I. Kaisala and F. Pine from Gilbert and Ellice Islands, and Assistant Medical Practitioner Macu Salato from Fiji undertook a refresher course on leprosy, while students from the Central Medical School came in turn to learn something of the disease and its treatment.
 - 3. Daily average for the Different Administrations—

N	1952	1953	1954
New Zealand— European	1.00	0.54	0.49
Chinese	0.46	1.00	1.0
Samoan	1.00	0.34	
Niue	1.00	1.00	0.66
	 3·4 6	 3.88	—— 2·15
Washam Camaa			
Western Samoa—	0.70	0.00	7 .40
Euronesian	9.53	8.36	7.43
Chinese	1·00 1·00	1·00 0·36	1.0
	60.78	59·58	55·41
Samoan		——— 69·30	63.84
	7201	- 00 00	00 01
American Samoa—			
Euronesian	3.00	2.24	
Samoan	26.67	16.57	
	29·67	 18·81	
Cook Islands—			
Euronesian	0.96		
Cook Islanders	55.86	48.84	36.37
Niue Islanders	5.00	5.00	5.0
	 61·82	 53.84	41.37
Tonga—			
Tongan	32.07	32.78	27.79
	—— 32·07	—— 32·78	 27·79
Gilbert Islands—			
European	1.00	1.00	1.0
Euronesian	2.00	2.41	3.0
Chinese	1.00	1.00	1.0
Gilbert Islanders .	76.27	92.58	108.46
	80.27	——— 96·99	——— 113·46
Fiji—			
European	1.00	1.00	1.0
Euronesian	4.90	5.00	5.93
Chinese	3.00	3.87	4.36
Melanesian /	20.90	21.71	21.64
Rotuman	10.36	12.64	15.7
Samoan	1.00	1.00	1.0
Banaban	10.60	12.37	10.71
Indian	227·05 132·29	224.56	210·89 137·84
Fijian		129·32 ———— 411·47	409.07
		~	
	690.70	686.07	657.68

4. Statistics—The average daily number of patients was 657.68 of which 398·26 (excluding Banabans) represented patients from within the Colony of Fiji.

LE]	
TABLE	
, .	

STATISTICS FOR THE YEAR, 1954

	65 65 1 1 1	
.		
		647
M.	441 411 42 434 .:-	
îzi	39 2 40	901
M.	62 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
Į.	က : : : က	0
M.	∞ : :- :r	
<u>ب</u> ا	10 10	_
M.	19 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	31
F.	16 :: 2 :14	
M.	25 1 1 20	34
н.	& :L : 52	
M.	w : : : w	ıc
т	23 :: 2	
M.	35 .: 1 34	55
규.	7: :: 1	
М.	81:::0	16
M.	7: 1: 17	
	58 1 1 8 baby 49	203
M.	168 12 24 24 154	100
F.	47 8 6	0
M.	84 11 .: 4 91	140
규.	=-:-:=	
M.	1: 22 1: 10	21
규.	6 : : 1	1
M.	10 2 : 2 : 10	17
بر	-::::	
M.	-::::=	2
	Admissions Deaths Discharges Unconditional Discharges ges Immates—31/12/54	Totals
	F. M.	M. F. M. F.<

The proportions of the main racial groups at the end of 1954 were:—

Indians 31 per cent Samoans 8 per cent Cook Islanders . . . 5 per cent Gilbert Islanders (including Banabans) 18 per cent

TABLE II—1954

	T-1	T	-2	T-	-3	L-	-1	L-2		L-3		Totals		
	м. І	F. M.	F.	м.	F.	м.	F.	м.	F.	м.	F.	M.	F.	
European Euronesian Fijian Solomon Islanders Samoan Rotuman Cook Islanders Niue Islanders Gilbert Islanders Tongan Chinese Indian	1 1 1 6 1 8 1 1 .	4 15 3 3 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 20 2 1 5 3	 4 2 1 4	1 3 1 	1 2 22 4 9 1 5 1 10 6 1 60	1 2 8 1 9 4 4 1 11 3 .:	8 33 2 19 7 12 42 6 4 81	2 19 3 10 2 9 1 23 3 	10 2 2 2 1 1 5	3 1 1 	1 10 86 13 35 9 25 3 76 19 7	1 6 54 12 23 7 16 3 45 10	2 16 140 25 58 16 41 6 121 29 7 227
Totals	36 2	21 51	39	11	7	122	62	214	99	21	5	455	233	688
	57	9	0	. 18	3	18	84	3	13	20	6	68	88	
			165						523					

		1952	1953	1954
Lepromatous—Per cer	nt			
Gilbert Islanders		75 per cent	84·2 per cent	75 per cent
Indians		75 per cent	74·3 per cent	83 per cent
Samoans		74 per cent	74·4 per cent	86 per cent
Fijians		62 per cent	54.4 per cent	66 per cent
Cook Islanders .		59 per cent.	52.5 per cent	
Totals		70 per cent	68 per cent	76 per cent
Males		74 per cent	70 per cent	78 per cent
Females		76 per cent	64 per cent	71 per cent

The 688 patients classified in Tables II, III and IV include those who died or were discharged during the year but not, following the custom of previous years, those admitted during the latter half of the year.

PROGRESS TABLE III—1954

	Arr		Qu			n- ved	Station- ary		Worse		Died			Totals	
European	M. 1 2 11 4 6 3 3 1 28	F	M 4 1 1 1 5 1 6	F 3 1 2 2 2	M. 5 56 2 15 5 11 35 9 3 84	F. 1 4 24 6 12 7 11 19 1	M. 3 12 6 13 4 6 2 29 7 2 46	F. 2 19 3 9 3 1 20 5 19	M 3 1 2 3 5	F	M 2 1 2	F	M. 1 10 86 13 35 9 25 3 76 19 7 171	F. 1 6 54 12 23 7 16 3 45 10 56	2 16 140 25 58 16 41 6 121 29 7 227
Totals	60	23	19	10	225	111 36	130	81	15 2 240	6	6	2	455	233	688

Total—Arrested,	Quiescent	and Imp	proved—Per	cent-
-----------------	-----------	---------	------------	-------

ŕ		1953	1954
Males	 	 52 per cent	52 per cent
Females		 57 per cent	57 per cent
Gilbert Islanders .		 53 per cent	55 per cent
Indians		 55 per cent	68 per cent
Samoans		45 per cent	57 per cent
Fijians	 	 42 per cent	73 per cent
Cook Islanders	 	 69 per cent	

TABLE IV-1954

		T-1	Т-2	Т-3	L-1	L-2	L-3	Totals
n! 1	 	25 5 11 14 1 1 57	12 8 45 16 7 2	5 4 3 6 	39 11 55 73 8 2 188	2 1 200 98 5 3 309	22 4	83 29 336 211 21 8

The proportion of cases recorded as "stationary" has decreased as compared with the figures of 1953, more particularly Lepromatous II cases.

- 5. Treatment—Ninety-nine of the patients have received treatment with a Sulphone derivative, particularly Diamino Di-Phenyl Sulphone by mouth, for whole or part of the year. Thiacetazone was retained for use in a few instances but at the end of the year nearly all the patients were receiving D.D.S. The dosage of D.D.S. was revised and a maximum dosage of 0.4 gm. twice weekly was given. The previous regime of maximal dosage of 0.2 gm. daily with one week's rest in four was replaced by this dosage of 0.4 gm. twice weekly without any "rest week".
- 6. Tuberculosis—Of the 35 cases of notified tuberculosis, only nine are active. Two cases were included amongst those discharged during the year. No deaths from tuberculosis occurred. Forty cases are being watched for further development. The active cases have been treated with a combination of Streptomycin, P.A.S. and Iso-nictonic hydrazide.

The total number of X-ray examinations, including all films taken, was 408—

Chest	 	 	 	240
Bones	 	 	 	105
Dental	 	 	 	27
Others	 	 	 	36

7. Dental Treatment—Ratu Vosailagi of the Dental Division visited during the year and arrangements were made for a second visit to be made by other officers of the Dental Division to undertake the preparation of dentures. The two Sisters partially trained in dentistry at the Central Medical School continued to render invaluable service.

DEATHS 1954

- 8. Two striking facts may be noted regarding the deaths during the year—first, that eight is the lowest number recorded at Makogai since 1920, when the total number of patients was only 244, and secondly, that no deaths as in 1952 and 1953 were due to tuberculosis in any form.
- 9. It is interesting to record the following figures of Admissions, Discharges and Deaths between 1948 and 1954, 1948 marking the end of the "pre-sulphone" era.

		A	Admissions	Discharges	Deaths
1948	 	 	73	52	40
1949	 	 	92	48	40
1950	 	 	80	37	30
1951	 	 	113	83	24
1952	 	 	70	57	13
1953	 	 	104	84	11
1954	 	 	57	66	8

- 10. Of the 57 admissions in 1954, seven were re-admissions but of these seven, two did not show any signs of reactivity.
- 11. While in 1948 only 3 of the 52 discharged were lepromatous cases, 24 of 65 discharged in 1954 were lepromatous; of the latter 65, 6 were re-admissions discharged once again. The decrease in deaths each year is also interesting.
- 12. In 1948, the 52 discharged patients, mostly T-1 and T-2 cases had been resident at Makogai for periods ranging from 2 years to 10 years—this excludes the re-admissions. In 1954 the 65 patients who left Makogai had been there for periods ranging from 1½ years to 27 years and the 24 lepromatous cases had received treatment with Sulphones for 4 or 5 years: these 24 cases on the average, had been at Makogai for 10 years with extremes of 23 years and 4 years.

DEATHS-1954

		T-	1	T-	-2	L-	-1	L-2		L-3		Totals		
Indian	•	M 1 1	F	м. 1 1 1 1 3	F	M	F	M. 1 1 3	F. 1 1 2	M	F	м. 2 2 1 1 6*	F. 1 1 2	3 1 2 1 1 1

The causes were:—

			1952	1953	1954
Uraemia and Chronic N	Vephritis		 4	4	
Amyloidosis			 2	1	
				1	
Broncho-pneumonia				1	1
Cardiac failure			 1	2	2
Coronary Thrombosis a	.nd infar	ction	 1	1	2
Cerebral Haemorrhage				1	1
			 2		
			 1		
Haematemesis			 1		
Cerebellar Abscess			 1		
Carcinoma					2
					_
	Total		 13	11	8

13. Use of "Chauvire" Antigen—During the year a trial was commenced with the "Chaurvire" Antigen or Antigen Marianum, a new product produced by Sister Mary Suzanne at the Laboratoire de Recherches sur la lepre at Lyon. Sister Mary Suzanne was one of the members of the staff of the earlier days of Makogai. The trial continues.

14. Filariasis—Blood smears were examined for microfilaria:—

of 700 examinations, of 75 from Fijian men, of 159 from Indian men, of 32 from Samoan men,

This investigation continues.

TABLE V—ADMISSIONS 1954

			N-	N-L		-1	Т-	T2		Т-3		L-1		-2	L-3		Totals		
			м.	F.	м.	F.	м.	F.	м.	F.	м.	F.	м.	F.	м.	F.	м.	F.	
T., 11				1	3	1	3	1	• •	1	$\frac{1}{2}$		5 5	5			9	9	18 12
Europeans	• • • • • • • • • • • • • • • • • • • •	• •		• • •	• •		••	1			·:	• • •				••	2		3
Rotumans											••	• •	$\frac{1}{3}$	i		•••	1 5	1	2 6
Gilbert Islanders .	• • • •						1	2	::		5	1	1				7	3	10
0.1 7.1 1					••		1			::			i		,		1	••	1
	Totals			1	3	2	7	4	••	1	9	1	17	7	1		37	16	53
			1			5	1	1		1	1	0	2	24	1		5	3	

This figure excludes the four absent without leave at the beginning of the year and shows only true admissions.

DISCHARGES 1954

			Unco	ond.	Т-	-1	T-	-2	Т-	-3	L-	-1	L-	-2	L-	-3		Totals	
Fijians Europeans Euronesians Solomon Isla Indians Samoans Cook Islande Tongans Gilbert Islan Chinese	ers.		M	f	M	F. 1 4 2	M. 2 9 2 1	F. 4 2 1 1	M. 1 1 1 1	F.	M	1 1 	M. 1 1 8	F	M	F.	M. 4 2 1 25 1 4 2 3 1	F. 6 1 8 2 2 2 2 2	10 2 2 33 3 6 4 5 1
Т	otals	 		1	9	7	14	8	3	• •	7	3	10	4	• •		43	23	66
	61			1	1	6	2	22	3	3		10	1	4			66	3	

														1
	Visitors	32	3	:	4	39	9	31	1	5	4	1	17	116
	Total for Lab. Examination	1,045	788	1,655	888	810	698	1,140	526	238	530	878	509	9,876
	H.B. per cent	511	233	249	332	404	154	472	147	29	210	469	139	3,349
•	B.S.R.	18	2	¢1	15	27	4	20	30	:	2	:	7	102
-	Fresh Blood Examination	6	:	513	32	∞	20	23	9	7	8	2	∞	629
	Blood Counts	16	8	4	6	9	15	59	16	4	3	1	32	168
	Urine analysis	116	154	180	145	132	102	136	133	102	96	26	59	1,451
CIONS	Helminths	32	20	36	19	2	09	98	:		16	4	17	293
ABORATORY EXAMINATIONS	Bacterial Examination	343	376	671	376	256	444	344	194	100	200	373	277	3,854
Y EXA	Post-Mortem		:	:	:	:	2	:	:	:	:	:	:	60
RATOR	Biopsy	:	-	7	:	3	:	:	:	:	:	:	:	9
LABO	Operations	_	:	2	က	12	:	:	:	:	:	:	:	18
	Dental	33	24	:	19	22	21	14	35	23	25	22	21	259
	X-rays	61	63	52	8	5	15	:	49	10	37	54	20	404
	Physiotherapy	:	:	:	:	:	;	11	300	353	360	362	380	1,766
	Рпеитотрогах	15	8	∞	00	7	:	:	:	:	:	:	:	46
	Patients Dressed	2,771	3,280	3,004	2,464	3,672	2,856	3,726	3,536	5,760	3,978	3,654	3,653	42,354
•	гвлігеэтП	4,131	4,800	4,276	3,876	5,024	3,876	4,734	4,607	4,122	3,125	4,454	4,991	52,016
	Totals for snoitosini	418	696	648	776	682	516	1,418	1,501	731	1,081	722	701	10,100
	suoireV	24	37	09	177	53	61	23	25	17	23	09	89	628
-	Streptomycin	:	56	62	:	:	0.1	56	21	12	193	62	124	640
	Marianum Antigen T. B.	:	:	:	:	:	:	:	55	55	55	89	69	302
	Anti-Typhoid and Tetanus T.	:	38	10	37	€.	13	31	243	20	243	21	10	029
IONS	Lepromin and Mantoux	:	528	:	:	117	:	55	:	:	20	:	:	720
INJECTIONS	Liver	10	21	6	7	:	3	294	218	59	45	118	74	828
I	nilusn1	47	57	115	111	66	92	62	61	:	:	:	:	647
	Penicillin	33	36	32	09	50	29	139	140	122	86	91	145	975
	Sulphetrone	134	113	254	697	233	240	331	343	328	131	114	27	2,517
	V.BI:B2:B12:	125	52	54	39	79	41	435	357	97	164	136	121	1,700
	Аиtорает. К:	44	31	52	92	48	24	22	38	12	46	17	63	473 1
	Sod. Ant. T. and	:	:	:	:	:	:	:	:	:	:	:	:	
		January	February	March	April	May	June	July	August .	September	October	November	December	

SUMMARY OF STATISTICS—1911-1954

,	Europeans.	Euronesians.	Solomon Islanders.	Fijians.	Indians.	Chinese.	Rotumans.	Samoans.	Niue Islanders.	Cook Islanders.	Tongan.	Banabans.	Gilbert Islanders	Maoris.	Total,
Admissions	23 1 6 14 2	56 3 21 15 17	222 72 129 21	937 404 395 140	1,417 435 448 331 203	29 7 15 7	110 57 37 16	150 22 43 34 55	15 2 8 5	280 176 70 34	75 27 17 31	13 3 10	239 52 81 106	 1 3	3,576 461 1,319 1,149 647

RAINFALL—1954

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1954	14.62	8.08	9.11	14.88	1.06	12.85	2.86	3.51	3.11	4.71	16.53	5.19	96.51

APPENDIX VIII (b)

LEPER SUB-STATION, KOROVOU, SUVA

1. Discharged cases from Makogai housed until transport arranged to their various destinations in and outside the Colony:—

5 III a	nd outside the colony.—				Male	Female	Total	
	Fijians				3	5	8	
	Indians	• •	• •	• •	$\frac{3}{24}$	7	31	
	Tongans	• •	• •	• •	$\frac{24}{2}$		4	
	Gilbertese	• •	• •	• •	3	$egin{array}{c} 2 \ 2 \ \end{array} .$	5	
	Cook Islanders	• •	• •	• •	4	2	6	
	Samoans	• •	• •	• •	1	1		
	Solomon Islander	• •	• •		1	1	$\frac{2}{2}$	
	C1.1	S	• •	• •	1		1	
	Part-Europeans	• •	• •	• •	3	• •	3	
	rart-Europeans	• •	• •			• •	3	
					$\frac{-}{42}$	$\frac{-}{21}$	63	
9	Patients housed pending i	comos	zol to M	akorai		21	03	
∠.		emov	al to M	akogar		_	1.0	
	Fijians	• •	• •	• •	6	, 7	13	
	Indians	• •	• •	• •	11	• •	11	
	Chinese	• •	• •	• •	1	• •	1	
	Rotuman	• •	• •	• •	1	1	$\frac{2}{2}$	
	Solomon Islander	s	• •	• •	2	• ;	2	
	Samoans	• •	• •	• •	• ;	1	1	
	Part-Europeans	• •		• •	1		1	
					_	_		
					22	9	31	
3.	Patients for examination h	ouse	d during	the ye	ar—			
	Fijians				7	1	8 .	
	Indians				6	1	7	
	Solomon Islander	s			1		1	
							. —	
	/				14	2	16	
4.	Discharged patients from	Suva	Rural	and Ur	ban attend	ding durii	ng 1954—	-
	Suva Urban .				8	2	10	
	Suva Rural				2	2	4	
						_		
					10	4	14	

APPENDIX IX

CENTRAL LABORATORY SUVA

TABLE OF INVESTIGATIONS CARRIED OUT IN 1954

1.	Histology-							Occult blood					105
	Material from biopsies.					423		Fat estimation					12
	autopsie					319		Functional tests—					
	Animal tissues			• •		7		Fractional test meals	• •	• •	• •		79
0	Skin (Leprosy)		• •	• •	• •	4		Urea clearance	• •	• •	• •	• •	
<u>ش</u> .	Haematology— Blood counts—							Urca range	• •	• •	• •	• •	
	White cell counts					2.502		Glucose tolerance Water balance	• •	• •	• •	• •	64
	Differential counts			• •		2,502 2,244	0		• •	• •	• •	• •	14
	Red cell counts			• •			9.	Animal Inoculations—					1.40
	Haemoglobin estima			• •		~ 4		Toads for pregnancy test				• •	143
	Haematocrit reading			• •	• •	189		Guinea pigs, tuberculosis	-	tospira	• •		10
	Blood sedimentation ra			• •	• •	1,070	10.	Rats for Plague—Negativ	re e				
	D1 1 '			• •	• •	726	11.	Forensic Medicine (other	than au	topsies)			53
	Pretransfusion cross m			• •	• •	128		Clothing for stains					3
	Donors bled for transf			• •	• •	128		Weapons for stains					0
	TO 1			• •	• •	13		Smears for spermatozoa					_
	Reticulocyte counts			• •	• •	478	12.	Postmortem Examination	ıs—				
	Marrow smears			• •	• •	116	1 1	Colonial War Memorial H					65
	Bleeding time			• •		13		Maternity Annex					0.0
	Coagulation time			• •		20		Tamavua Hospital					
	Platelet counts					14		Mental Hospital					C
	Prothrombin time					$\frac{14}{22}$		Police					0.0
3	Seminal Fluids—		• • •	• •	• •			Others					4
٠.	Examinations for ferili	ity test	s			28							
4	Parasitology—	ity test.		• •	• •	20							33,439
4.	Faeces—												
	Examinations for cy	zets and	lova			6,602		BRANCH LABO	RATOR	Y LAU	TOKA	1	
		noebae				178	13.	Haematology—					
	Blood—	inocbac	• •	• •	• •	170		Blood counts—					
	Films for malaria					68		White cells counts					808
	Microfilariae					337		Differential counts .					000
5	Bacteriology—		• • •	• •	• •	007		Red cell counts					792
٠.	Microscopic examination	ons—						Haemoglobin estimation					E 000
	Vaginal, urethral an		cal smears	3		754		Blood sedimentation rate					934
	0			•		899		Blood grouping					425
	Stools for M tubercu					99		Donors bled for transfusi		'			83
	Urine for M tubercu					97		Haematocrit readings					
	Skin lesions for M le					331		Bleeding time					0
	fung					66		Clotting time					0
	Miscellaneous exuda					276	14	Parasitology—					
	Mantoux tests					10	1.1.	Faeces—					
	Cultures—				•			Examinations for cysts	and ov	а.			1,130
	Gastric washings for	M tub	erculosis			306			ebae and				264
	Sputum washings fo					13		Blood-	code dire		• •	• •	
	Faeces					62		Films for malaria					18
	www.t					39		Microfilariae					45
	Blood ·					113	15		••	• •	• •	• •	
	Throat swabs					145	15.	Bacteriology— Microscopic examination					
	Conjunctival swabs					21		Urethral and cervical					257
	Cerebro spinal fluids					296			··		• •	• •	980
	Bacteriological examin							Sputum Stool for T.B					10
	Drinking water supp					157		No. of the second					146
	Milk					5		Skin and nasal smear f					56
	Ice cream					15		Skin scrapings. Fung					33
						6		Miscellaneous exudates					178
	Various					23		Cultures—	, puo, ce		•		
	Dark field examination	as for to	reponemat	ta		13		Stools					78
6.	Serology—							Blood					23
	Agglutination tests—							Throat swabs					93
	For typhoid and par		oid			196		Eye swabs					$\frac{24}{24}$
	Brucellosis infection					37	16	Serology—					
	Kahn reactions					1,473	10.	Agglutination tests—					
7.	Vaccines prepared—					1.115		For typhoid, etc					17
	T.A.B. 50 c.c. bottles					1,115		Brucellosis infections					3
0	Autogenous vaccines .	· · ·	• •	• •	• •	29	17	Biochemistry—					
8.	Biochemistry—						17.	Estimations in blood—					
	Estimations in blood—					226		Sugar					128
	Sugar			• •		293		Urea					128
	Nonprotein nitrogen			• •	• •	16		Estimations in Serum—		, ,			
	Cholcstrol Estimations in Serum-		• •	• •	• •	10		Van den Bergh					56
	Van den Bergh reac					125		Protein					25
	Icterus Index					21		Urine—					
	Calcium					5		Routine					1,390
	Proteins					92		Bile					49
	Alkaline phosphatas					105		Cerebro-spinal fluids—					
	Takata ara reactions					3		Protein					64
	Thymol turbidity					98		Chlorides				•	66
	Bilirubin	· · ·				104		Sugar					37
	Urines—							Faeces-Occult blood, et	c				46
	Routine and microso	copic ex	kamination	ns		2,401		Functional tests—					
	Excretion of ascorbi					735		Glucose tolcrance tests			• •		13
	Estimation of sugar					40		Fractional test meals					35
	Cerebro-spinal fluids—							Animal inoculations—					
	Cytology					296		Toad for preganncy tes	sts .				91
	Protein					227							14.000
	Sugar					171							14,832
	Chlorides		• •		• •	172							

18.	Kahn reactions-	-Number 1.	.473. Th	results	showed	the usual	racial	differences—
-----	-----------------	------------	----------	---------	--------	-----------	--------	--------------

	Tot	al		Sera	Strong positive	Postive	Doubtful	C.S.F.	Postiive
Fijians Indians Europeans Others		••		196 946 211 87	18 24 6	39 47 3 11	17 39 4 3	12 20 1	5 2
				1,440	48	100	63	33	7

19. Stools—The total number of microscopic examination for parasites was 6,780.

The rate of infestation found was as follows:-

Helminths-

11 000000000			
Ova of ankylostomes .		• •	 1,364 or 20 per cent
Ascaris lumbricoide	S		 409 or 6 per cent
Trichuris trichiura		· •	 110
Protozoa-			
Living Ent histolytica .			 4
Cysts of Ent histolytica .			 5
Ent coli			 231
Giardia lamblia .			 19
Iod. butschlii .			 21

Specimens were mainly routine from troops, schools, nurses, etc., as well as patients and show a high incidence of infestation.

APPENDIX X

ANNUAL REPORT OF THE LEPROSY, V.D., AND YAWS CLINIC FOR THE YEAR—1954 HEALTH OFFICE, SUVA

- 1. The clinic is situated behind the Health Office, Rodwell Road, Suva, opposite the Government Pharmacy. It contains two examining rooms, office, two toilets and a waiting room. Treatments, examinations, smears for Hansens disease, blood for Kahn's test and injections are carried out.
 - 2. Staff—One Assistant Medical Practitioner assisted by a staff nurse.
- 3. Gonorrhoea—Almost all cases were treated with penicillin. Only a few cases were treated with a combination of penicillin and sulphathiazole. One or two cases reported as having relapsed, otherwise there has been no complication observed of a serious nature which demanded hospital treatment. With modern early treatment, admission to hospital is unnecessary.

Almost all contacts were traced, investigated and treated as required. Incidence for five years showing increase and decrease of number of cases:—

1950	 	 	 133 cases
1951	 	 	 99 cases
1952	 	 	 102 cases
1953	 	 	 72 cases
1954	 	 	 100 cases

Number of cases in Race group for year 1954:—

er or cases	III Itace	group for yea	ar 130	J-x			
European		Male		2	Female	 	
Indians		Male		26	Female	 9	
Fijians		Male		31	Female	 26	
Others		Unclassified		6			

Total

100 cases

- 4. Ophthalmia Neonatorum—Two cases were referred by the Child Welfare Sister. One of these was a Fijian infant and the other a part European infant. Both of these cases were admitted to the Colonial War Memorial Hospital for treatment.
- 5. Syphilis—Two cases were notified during the year and treated in the clinic. They were both male Indians with primary type. There were nine old cases treated during the year.

Syphilis—Incidence for five years showing increase and decrease of number of cases:—

1950	 	 	 76 cases
1951	 	 	 30 ,,
1952	 	 	 31 ,,
1953	 	 	 13 ,,
1954	 	 	 2

6. Leprosy—Six cases were reported in Suva and the suburbs during this year. They consisted of—one Indian male, two Fijian males, two Rotuman males, and one Solomon Island female. Twenty-seven suspected cases were examined, four of these were non-infective and were returned to their homes. Three cases of recurrence were found in ex-patients during routine reviews. They were all sent to the Leprosy Hospital, Makogai. The examinations are carried out at the clinic and also at the Sub-Station, Korovou, Suva.

Upon discharge from Makogai each patient is regularly issued with the prescribed maintenance doses of sulphones. 164 patients received their issues during the year. 107 reviews were carried out and completed.

7. Yaws—Yaws is prevalent among the Fijian race. Some instances of Yaws were exhibited among other Island races living in the Suva area, namely, Solomon Islanders, Rotumans, and part Europeans who have married Fijian women or who have otherwise come in contact with infectious cases.

A total number of 1,886 cases were treated at the clinic.

APPENDIX XI

SUVA GAOL

1. During the year the following Medical Officers acted as Visiting Medical Officer to the prison:—

Dr. T. A. Doran, Dr. T. G. Hawley and Dr. G. Hallman.

A.M.P. Mahesh Prasad has been in charge of the Infirmary.

Regular visits were made to the prison and cases referred were examined and treated. Prison buildings including the bakery and kitchen were regularly inspected and found to be satisfactory

All new prisoners who numbered 514 were examined on admission and those sentenced to terms of imprisonment exceeding one month also had a chest X-ray.

The usual sick parades were held in the main prison compound twice a day by the resident Assistant Medical Practitioner.

2. Thirty-seven patients were admitted to the Infirmary during the year and consisted of the following cases:—

Haemoptysis	 	2	Diarrhoea	 	1
Abscesses, boils	 	3	Influenza	 	30
Wounds		1			

One hundred and three cases of infectious diseases were notified during the year as below:—

Chicken Pox.	 	2	Pulmonary	Tube	rculosi	S	1
Gonorrhoea .	 	2	Yaws				1
Influenza	 	97			-		

The following 19 cases were transferred to the Colonial War Memorial Hospital:—

Anaemia		 1		 	1
Appendicitis.		 1	9	 	1
Chronic Gonorrho	ea	 1	Pleurisy	 	1
Dermatitis		 1	<i>J</i> = = = =	 	2
1 2		 1	Renal Calculus	 	I
Fistula-in-ano		 1	Varicose Veins	 	1
For investigation		 6			

Two cases of pulmonary tuberculosis were transferred to Tamavua Hospital.

Of seven cases referred for Mental examination one was found to be insane and was certified and transferred to the mental Hospital.

No case of leprosy was found among the prisoners or staff.

No deaths due to sickness or accident occurred in the prison.

No corporal punishment was inflicted and no judical hanging took place during the year.

APPENDIX XII

MOSQUITO AND FILARIASIS CONTROL

HETRAZAN EXPERIMENTS

- 1. The Hetrazan experiments commenced in 1952 in Beqa Island, Rewa Province, and in the Ra Province were extended and further check tests were made on the original positives in each area. These follow up checks were made 6 months, 12 months and 24 months after the original survey and first Hetrazan treatment.
- 2. Beqa Island—Given 50 milligrams three times daily for seven days with all positives at supplementary checks being re-treated with the same dosage.

The latest figures show:—

T '.' 1 /C	At Start		After 6	After 6 months		After 12 months		months
Initial m/f counts per 1 c.c.	No.	RPM	No.	RPM	No.	RPM	No.	RPM
0 1— 5 6—10 11—30 31—50 51—100	19 32 10 11 30 5	170 330 89 98 268 45	71 23 7 10 1	634 205 63 89 9 0	62 32 6 9 1 2	554 286 54 80 9 18	69 17 8 12 4 2	616 152 71 107 36 18
All positive blood cases	112	1,000	41	366	50	446	43	384
Average m/f count per 1 c.c.	39-	82	2.875		75 4.26		4.80	

3. Tailevu Province—A further experiment was undertaken in Tailevu Province on 204 cases positive for microfilaria. The dosage was 50 milligrams three times a day for three days with a re check in 12 months.

Initial m/f count	At S	tart	After 12 months			
per 1 c.c.	No.	RPM	No.	RPM		
0 1— 5 6—10 11—30 31—50 51—100	0 47 40 65 28 19 5	0 230 196 319 137 93 25	101 35 22 28 6 8 4	495 172 108 137 29 39 20		
All positive blood cases	204	1,000	103	505		
Average m/f count per 1 c.c.	23:3	39	11.	14		

4. Ra Province—Given 50 milligrams only one day each month throughout at monthly intervals.

T :: 1 /6		At Start		After 6	After 6 months		After 12 months		After 24 months	
Initial m/f count per 1 c.c.		No.	RPM	No.	RPM	No.	RPM	No.	RPM	
0 1— 5 6—10		0 75 24	0 474 152	128 29 1	810 184 6	132 25 1	836 158 6	136 21 1	861 133 6	
11—30 31—50 51—100		41 29 9 0	260 57 57 							
All positive bloccases	od 	158	1,000	30	190	26	164	22	139	
Average m/f couper 1 c.c.	int	13.	55	0.	32	0.	38	0.	44	

5. Lakeba Island: Lau Province—All previous Hetrazan experiments were conducted only on cases positive for microfilaria and were mainly to ascertain the most effective dosage.

In April 1954, a survey was made of eight villages in Lakeba Island in the Lau Province. The whole population was blood tested for m/f and returned:—

	Males	Females	All Population
No. of Person Examined	740	842	1,582
Microfilaria Rate per mille of total			
population	223	185	204

- 6. A count of wild mosquitoes captured inside the villages and at regular intervals in the adjacent land up to 100 yards from the village was made. After dissection percentage of infected mosquitoes was noted.
- 7. The whole population, whether negative or positive for microfilaria, was then placed on a course of Hetrazan with the dosage of 50 milligrams on one day per month. This dosage was found to be the most effective during the earlier experiments.
 - 8. Lakeba Island—Before initial Treatment—

/6.0 1		Before T		
m/f Count pe	r I c.c.	No.	RPM	
0		 0 .	0	
1 5		 37	115	
6— 10		 28	87	
11 30		 63	196	Positives
31— 50		 48	149	only.
51 100		 63	195	•
101— 500		 56	174	
5011000		 15	47	
1000		 12	37	
Total positives		 322	1,000	_
Average m/f cour	ıt	 14	6.0	

RPM = Rate per mille.

- 9. In April 1955, the whole population will again be tested and comparisons made with the above figures. Another count of wild mosquitoes will also be made.
- 10. Hetrazan Reactions—Over 80 per cent of all persons treated with Hetrazan report suffering some form of mild reaction to the drug. These reactions are mainly headache; backache, fever, general malaise. Reactions do not persist for more than three days.

No patient has ever refused re-treatment. At Beqa Island and in Ra no person treated has reported a recurrent attack of filarial fever for twelve months.

11. Training School—During 1954 eight students completed the six months course of training provided in filariasis and mosquito control.

APPENDIX XIII

NUTRITION ACTIVITIES IN FIJI—1954

- 1. During the year, the supervision of hospital food services in Suva was undertaken by the Dietitian, Fiji Medical Service. All other nutrition activities, which included inspection of institutions, education and research were carried out by the Nutrition Section of the South Pacific Health Service.
- 2. Food Service in Institutions—This year a considerable amount of time has been spent in devising means for reducing the cost of rationing. Less expensive types of food of good nutritive value have been introduced, and kitchen efficiency has been increased. In addition, the Prisons Department has established a successful scheme for the bulk purchase of stores for institutions. This has already brought about considerable savings on numerous food items.
- 3. Costed ration scales have been prepared for the Education Department and some of the Hospitals, and these have been used as a basis for financial estimates. Advice on ration scales has been supplied to the Army and to Mission Schools.
- 4. Nutrition Education—Courses in nutrition and dietetics have been given to nurses at the Lautoka and Suva Nursing Schools. A course on diet therapy and public health nutrition was given to senior medical students.
- 5. A series of radio talks for Fijian and Indian women was started in November. These are prepared by the Education Department's Home Science Supervisor and the Nutritionist.

- 6. The first printed number of the pamphlet—Tropical Food and Nutrition appeared in June. Nearly 900 copies have been distributed in Fiji and other South Pacific Health Service territories. The second number was published in November.
- 7. A weekly food note on the nutritive value and use of tropical food has been prepared for the local press.
- 8. Notes on feeding Indian infants were prepared for limited distribution. These are to be translated into Hindi and printed by the Government Printer for large scale distribution.
- 9. Research—In May, a survey of economic conditions and nutritional status of poor Indian families was undertaken in conjunction with Miss O'Loughlin of the Australian National University who was invited to make a study of national income in Fiji.
- 10. The annual height and weight survey of Fijian children at two schools in Ovalau and Moturiki has continued. One of these schools started an excellent school lunch programme in February
- 11. It was encouraging to find that between February and November, the average per head gain in weight for 136 school children was nearly one pound greater than in 1953 when there was no regular lunch programme.
- 12. This school lunch scheme is organized by village women. Every day two women come from each village to cook vegetable and fish soup for the midday meal, which is supervised by one of the school masters. It is hoped that consideration might be given to putting this type of scheme into practice in schools throughout Fiji.
- 13. Improvement in Food Supplies—Experiments were carried out to see if the imported fresh-water-pond fish—Tilapia mossambica would be an acceptable food in Fiji. This fish has increased rapidly in several ponds. Plans are now being made to introduce fish farming at Queen Victoria Boys' School.

APPENDIX XIV (a)

CENTRAL MEDICAL SCHOOL

- 1. Staff—Fulltime staff consists of a Principal (Dr. A. R. Edmonds); Lectures in Anatomy and Surgery (Mr. K. J. Gilchrist, F.R.C.S., and A.M.P. Ram Singh); Science lecturer and two Dental Officers.
- 2. Part-time lecturers include the Surgeon Specialist, Physician Specialist, Pathologist, Opthalmologist, Tuberculosis Specialist, and Medical Officers of the Colonial War Memorial Hospital, the Medical Officer of Health and members of the Health Department. Lectures in Nutrition are given by the Senior Nutritionist, South Pacific Health Service.
- 3. Three important developments occurred during the year. These were, the acceptance of recommendations regarding the future development of the school, the occupation of the new building at Tamavua, and the replacement of the former four year course by a five year medical course.
- 4. A Cambridge School Certificate is now required for all entrants from Fiji, and something at least approaching that standard in English, Mathematics and Science from other territories. Furthermore, in order to help those territories whose educational facilities are at present inadequate to meet the requirements, a preliminary class in the above mentioned subjects will commence in 1955. This preliminary course is experimental and it will take at least one year to decide whether it is sufficiently effective, or whether these students should receive longer and more formal education in high schools in Fiji or elsewhere.
- 5. The second half of 1954 saw a considerable increase in the amount of teaching which occurred in the clinical years. This was mainly due to the release of Mr. K. J. Gilchrist, F.R.C.S., from his surgical commitments in the hospital and his taking up full time teaching duties in Anatomy and Surgery, and the appointment of Dr. C. H. Gurd, to the vacant post of Physician Specialist. All three clinical years were fully occupied, both mornings and afternoons by lectures and classes in the hospital. This increased teaching time resulted in considerable benefit to the students doing their final year. This group was a large one and had previously suffered consderable changes in teaching personnel.
- 6. The Dental course, which was one of four years, has been reduced to three years. The standard of admission to this course, however, has been raised, so that students entering the course should be better fitted to cope with the subjects than previously. Furthermore, the subject of prosthetics has been removed from the dental course proper, and made a one year post-graduate course as the number of Assistant Dental Practitioners requiring this additional training in the territories is limited. There has been no actual reduction in the quality and extent of the subjects dealt with.
- 7. The administration and some of the teaching was transferred to the new building at Tamavua in May, 1954. Students have been domiciled in the living quarters since August. The students in ancillary courses live in flats adjacent to the school, and the old quarters behind the Colonial War Memorial Hospital are now occupied by resident Hospital Assistant Medical Practitioners and those undertaking post-graduate training at the hospital.

8. The following is an extract from the statistical data for 1954:—

			Medical	Dental
Number of students enrolled at the beg	ginning o	f the		
year			99	33
Admitted during the year			1	
			100	33
Discharged during the year			2	2
Remaining at the end of year	• •	• •	98	31
Graduated at the end of year			3 0	12
Departed without graduating			3	
Remaining to repeat whole or part of	final year	ar	4	
Sanitation, X-ray, Laboratory and Ph	armacy	Course		
Students who lived in the School				 16
Post-graduate students registered during	ng 1954			 6

9. The Medical and Dental students in the School were drawn from 11 territories apart from Fiji. The actual distribution of the various groups was as follows:—

Fijians (including	Rotumans	and	Banal	oans)	 39
Fiji Indians					 15
Cook Islanders.					 10
Nauruans					 1
New Hebridians					 1
Western Samoans					 8
Eastern Samoans					 8
Tongans					 2
United States Tru	ıst Territor	ries			 24
Solomon Islanders					 6
Gilbert and Ellice	Islanders				 2
Papua-New Guine	ea Student	S			 10
Niue Islanders .					 3
					129

10. The final year in Medicine contained 35 students, of whom 30 graduated, one was removed by his administration and four have been referred for further study. As will be seen above the whole of the final year in dentistry passed and graduated.

11. Every effort is being made to maintain and improve the general standard of Assistant Medical Practitioner graduates. The majority will be required to undertake village and district dispensary work in the territories. Many will also be solely responsible for preventing illness and promoting health in remote areas. At the same time graduates receive a sufficiently broad basic training to fit them for post-graduate training in specialised fields of medicine when the need arises.

12. A report on the Central Medical School would not be complete without reference to the valuable assistance received from Medical Officers, specialists and others in and outside the Medical Department. The teaching load imposed on many of these individuals who have full-time commitments in other fields is heavy and their devotion is greatly appreciated. The co-operation received in administrative and teaching facilities from the Medical Officer-in-Charge and staff of the Colonial War Memorial and Tamavua Hospitals has been invaluable.

APPENDIX XIV (b)

1. Dental School—The following territories were represented in the Dental School.

United States Trust Territory Tonga Eastern Samoa Niue

Western Samoa Cook Islands

Fiji (Fijian, Indian and Part-European)

2. Dental Health Education—A series of radio talks under the auspices of the South Pacific Health Service was given by the Dental Hygienist. Two newspaper features were prepared and published in the local press in three languages. A dental health booklet was prepared, ready for publishing in 1955. The plan for Dental Health Education and toothbrush instruction in the schools has not yet commenced.

- 3. School Dental Service—Four afternoons of every week have been set aside for the treatment of school children, who attend by appointment from Suva schools. Because of the number of school children in Suva this service is not yet comprehensive.
- 4. As a test of dental conditions in outlying schools a survey was made by the Dental Hygienist and the Senior Dental Officer of a school on the islands of Ovalau and Moturiki.
- 5. The school and Pre-School Treatment Clinic in Rodwell Road was closed in May but its activities were absorbed by the Dental Clinic at the Colonial War Memorial Hospital.
- 6. Dispensaries—Extractions for the relief of pain are carried out by Assistant Medical Practitioners at their rural dispensaries.
- 7. Inspection of dental equipment in most of the dispensaries on Viti Levu was made early in the year by the Director of Medical Services and the Senior Dental Officer. Replacements were made as required.

APPENDIX XV

		NUR	SING I	OIVI	SION: 1	954			
1. Nursing Servi	ice: (State	Regist	ered)—	-					
	Superinten		1				ral Nurs	sing	
	Matrana		3			ol.		• •	1
Assistant Sister-in-c			$\frac{2}{4}$		Tutors Health		• •	• •	6 11
Olotor III (• •			Hospita				47
					•		otal		75
2. Locally Train	ed Nurses-					1	Otal	• •	73
Employee	d in Hospi	itals (F	ijians	131,	Indians	11 (in	cluding	58	
nurses	in 17 Rura	l Hosp	itals)						142
Employed	d in Distric	et Nurs	ing (Fi	jians	126, Inc	dians 5)	• •	131
	ialified dui scontinued						• •	• •	48 71
Male Nur	ses	···		• •					18
Post-Grad	duate (6 m	onths)							3
3. Student Nurse	es in Train	ina 31 s	t Decen	nher .	1954				
	ursing Sch	_		,,,	1304				
Fijia:	-								107
	mans.			• •				• •	4
	uans		• •			• •			$\hat{2}$
New	Guinea								1
					•	Total			$\frac{1}{114}$
Nursing S	chool, Lau	itoka H	lospital						
	ns								77
	ns		• •	• •	• •	• •	• •	• •	5
rait-	Europeans	· · ·	• •	• •			• •	• •	1
I abasa U	conital (or	li Grat	*****	raini		Cotal	···	 d	83
	ospital (on Central Nu							··	8
						otal			205
Locally tr	ained nurs	es at 1'	7 Rura	l Hos		otai	• •	• •	58
		SUV.	A HEA	LTH	OFFIC	E			
Health Sisters, 2	(1 Distric	t. 1 Sch	nool). N	urses	s = 10.				
Clinic Attendanc		•	,,						
									1,930
European		• •	• •	• •		• •	• •		935
Part-Euro		• •	• •		• •	• •	• •	1	
•	• • • • • • • • • • • • • • • • • • • •	• •	• •	• •	• •	• •	• •	1	2,519
	• • • •	• •	• •		• •	• •	• •		9,685
Chinese	• • • • •	• •	• •		• •	• •	• •		555
Others	• • • •	• •	• •		• •		• •		1,632
								2	27,256
Children 1	ınder 2 yea	ars seer	in He	alth :	Office				5,864
Cinidicii (inder 2 yea	113 3001.			Clinic .				8,219
Children a	,, in-t-d	againat				• •	• •		
	vaccinated			•		 C = orlo	٠٠.		1,127
Tetanus	ons agains	it Dipi	nneria,			Cough			1,579
	oculations		• •						44
	ons against		d		• •	• •	• •	1	0,075
Homes vis		typnor							0.010
	ritod			٠.	• •				
Children i					• •				3,972
	nspectéd i	n schoo	 ls						3,972 9,749
	nspectéd in reated for	n schoo minor	 ls ailment						3,972 9,749 8,892
	nspected in reated for referred to	n schoo minor Dental	 ls ailment Clinic						3,972 9,749 8,892 117
r	nspected in reated for referred to	n schoo minor Dental Eye Cl	 ls ailment Clinic inic .	 					3,972 9,749 8,892 117 8
t	nspected in reated for referred to reated for	n schoo minor Dental Eye Cl Nutriti	ls ailment Clinic inic .	 .s 					3,972 9,749 8,892 117 8 36
t i	nspected in reated for referred to reated for nfected wi	n schoo minor Dental Eye Cl Nutriti th Chic	ls ailment Clinic inic . tonal de						3,972 9,749 8,892 117 8 36 6
t i	nspected in reated for referred to reated for	n schoo minor Dental Eye Cl Nutriti th Chic	ls ailment Clinic inic . tonal de						3,972 9,749 8,892 117 8 36

ACTIVITIES OF HEALTH SISTERS AND RURAL HEALTH NURSES BASED ON CENTRES OUTSIDE SUVA

	Lautoka	Labasa	Rewa	Ва	Tavua	Ra	Nadroga	Savusavu
Attendance at Health Clinic	2,220	11,301	1,674	1,515	638	2,024	1,137	2,378
Schools visited	53	40	56	29	27	50	55	15
Children examined at								
schools	7,068	3,210	13,120	3,852	6,594	3,117	5,986	1,230
Children seen in villages	3,617	1,164	11,829	3,600	2,756	2,071	6,772	1,203
Smallpox vaccination	604	358	357	67	119	180	729	34
Typhoid inoculation	7,862	3,909	5,739	3,321	3,749	4,127	1,175	296
Diphtheria, Whooping		· 1	· ·	<u> </u>		,		
Cough and Tetanus								
injection	1,221	315				1,799	75	19
Ante-natal examinations	250	29	1,883	71	115	508	878	337

APPENDIX XVI

CENTRAL MEDICAL RESEARCH LIBRARY

1. Staff—Salim Buksh, combined the duties of clerk and librarian.

Clerical work included the typing of catalogue cards for the material received, keeping personal cards of borrowers up-to-date, and filing letters, invoices, and bills in their appropriate files.

2. The following Medical Officers constitute the Library committee to consider and recommend books and other reading material for the Library.

Dr. Verrier						Chairman
Dr. Gurd, Phy	sician Speci	alist				Member
Mr. Cohen, Ac	ting Surgeon	n Special	ist .			,,
Dr. Edmonds	, Acting Pri	incipal,	Central	Medic	al	
School						,,
Mr. Gilchrist,	Lecturer i	n Anato	my an	d Surg	gery,	
Central Med	lical School					,,

- 3. During the year 284 volumes were acquired. Most of these were purchased through the Crown Agents, London. This brings the total to 2,851 volumes in the textbook section. Pamphlets and reprints received during the year from the Medical Department, were 24 now making a total of 382 pamphlets.
- 4. All material other than journals was classified and entered in catalogue cards, cards were arranged in alphabetical order and stored in cabinets. Each text book had catalogue cards made for author main entry, added entry and for all leading and main subjects. Books with hard covers were treated with book varnish, then clear varnish and placed on shelves according to their classification. Every book was marked on spine with "accession No." and "location No." Damaged books were repaired in the Library. A shelf catalogue card, was also provided for each textbook.
- 5. Duplicate issues of periodicals were circulated among various Medical Officers and some were distributed to Assistant Medical Practitioners' stations in districts and islands. Missing number of journals were received from the Librarian, London School of Hygiene and Tropical Medicine, American Armed Forces Library, Washington, and The Principal, Grant Medical College, Bombay India.
- 6. The students of the Central Medical School and the Assistant Medical Practitioners attached to the Colonial War Memorial Hospital had the full advantage of using the library freely throughout the year. Pupil nurses of the Central Nursing School formerly had the privilege of using and borrowing library books; however as books became damaged and lost, this privilege had to be discontinued.
- 7. Most textbooks and journals were borrowed by final year students. The average attendance of readers and borrowers were 40 daily including Medical Officers, Medical Students, Health Students, X-ray, Laboratory and Dental Students. About 80 textbooks were lent to the Central Medical School, for the use of students at Tamavua. A list of over-due books borrowed by students was prepared monthly and forwarded to the Principal. Date cards for over-due books were also put on the notice board for students' attention. Most of the books were recovered from students by the above method.
- 8. Bibliographical inquiries received from final year students, Assistant Medical Practitioners and Medical Officers were answered from the following journals: British Medical Journal, Nature, Lancet, Archives of Disease in Childhood, Journal of Bacteriology, Biochemical Journal, The Practitioner, The Journal of American Medical Association, British Journal of Radiology, Transactions of Royal Society of Tropical Medicine and Hygiene, The Journal of Nutrition, The Journal of Obstetrics and Gynaecology of the British Empire, Tropical Diseases Bulletin, British Journal of Venereal Diseases, British Medical Bulletin and from the British Encyclopaedia of of Medical Practice.

APPENDIX XVII

Return of Diseases and Deaths for the year 1954, at the Colonial War Memorial Hospital, Tamavua, Lautoka, Labasa and Levuka Hospitals.

Note.—This classification is based on the International List of Causes of Death, 1929.

List	mediate Number	Detailed List Numbers	Cause Groups	Euro.	Fijian	Indian	Others	Totals	Deatl
			I—INFECTIVE AND PARASITIC DISEASES						
A	1	001–008	Tuberculosis of respiratory system	15	479	177	71	74 2	64
A	2	010	Tuberculosis of meninges and central nervous system		15	8		23	19
A A	3 4	$011 \\ 012,013$	Tuberculosis of intestines, peritoneum and mesenteric gland Tuberculosis of bones and joints	s 2	18	15		9 36	3
A	5	014-019	Tuberculosis, all other forms		24	8	4	36	2
A A	6 7	$\begin{array}{c} 020 \\ 021 \end{array}$	Congenital syphilis Early syphilis			2	3	$\frac{3}{2}$	
A	8	024	Tabes dorsalis						
A A	9	$025 \\ 022,023$	General paralysis of insane All other syphilis						
		026-029							
A A	11 12	$030-035 \\ 040$	Gonococcal infections Typhoid fever		$\frac{21}{2}$	10 2		31	
A	13	041,042	Paratyphoid fever and other Salmonella infections		$\frac{1}{2}$	٠		2	
A A	14 15	$\begin{array}{c} 043 \\ 044 \end{array}$	Cholera Brucellosis (undulant fever)			1			
Ā	16 (a)	045	Bacillary dysentery	3	2	8		13	
	(b) (c)	046 047, 048	Amoebiasis Other unspecified forms of dysentery	$\begin{array}{c c} \cdot \cdot & 6 \\ \cdot \cdot & 2 \end{array}$		15 51	5	37 72	
A	17	050	Scarlet fever			• •			
A A	18 19	$\begin{array}{c} 051 \\ 052 \end{array}$	Streptococcal sore throat Erysipelas	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$			1 ::	$\frac{2}{2}$	
A	20	053 055	Septicaemia and pyaemia					,	
A A	$\begin{array}{c} 21 \\ 22 \end{array}$	056	Diphtheria	1		3 13	- 1	$\frac{4}{20}$	
A	23 24	05 7 058	Whooping cough		6	5	4	15	
A A	25	060	Plague Leprosy	1	_	4		7	
A	26 27	061 062	Tetanus	1		25	2	36	2
A A	28	080	Acute poliomyelitis						
A	29 30	082 081, 083	Acute infectious encephalitis Late effects of acute poliomyelitis and acute infection			1		1	
A			encephalitis		1			1	
A A	31 32	084 085	Smallpox		1			\cdots_2	
A	33	091	Yellow fever				.:		::
A A	34 35	092 094	Infectious hepatitis Rabies	5	17	24	3	51	
A	36 (a)	100	Louse-borne epidemic typhus						• : :
	(b) (c)	101 104	Flea-borne endemic typhus (murine)						::
	(d)	105	Mite-borne typhus						
	(e)	102, 103 106–108	Other and unspecified typhus	• • • • • • • • • • • • • • • • • • • •			•••	• •	
A	37 (a)	110	Vivax malaria (benign, tertian) *	1	16	1		18	
	(b) (c)	111 112	Malariae malaria (quartan) Falciparum malaria (malignant tertian)				::		
	(d)	115	Blackwater fever						
	(e)	113, 114 116, 117	Other and unspecified forms of malaria						
A	38 (a) (b)	123·0 123·1	Schistosomiasis vesical (S. haematobium) Schistosomiasis intestinal (S. Mansoni)				=		
	(c)	123.2	Schistosomiasis pulmonary (S. japonicum)						
A	39 (d)	123·3 125	Other and unspecified schistosomiasis	• • • • • •	• • •	•••	• •	••	
A	40 (a)	127	Onchocerciasis						
	(b)		Loiasis Filariasis bancrofti)	$\begin{array}{c c} \cdot \cdot & \cdot \cdot \\ \cdot \cdot & 4 \end{array}$	53	9	1	67	
	(c) (d)		Other filariasis						
A A	41 42 (a)	129 126	Ankylostomiasis	1	38	102	$\frac{2}{1}$	143	
	(b)	130.0	Ascariasis	1	15	12	1	29	
	(c) (d)	130·3 124, 128	Guinea worm (dracunculosis)		1			1	
A		130.1, 130.2							
A	43 (a) (b)	037 038	Lymphogranuloma venereum Granuloma inguinale, venereal				• • •		
	(c) (d) (e)	039 049	Other and unspecified venereal diseases		8	2 4	1 4	11	
		049	Food poisoning infection and intoxication	$\ldots $ 1	4	4	4	13	
	(a) (e)	071	Relapsing fever		}				

	ermediate t Number	Detailed List Numbers	Cause Groups	Euro.	Fijian	Indian Other	s Totals	Dtaths
	(f) (g) (h) (i) (j) (k) (l) (n) (n) (o) (p)	072 073 087 090 095 096·7 120 121 (a) (b) (c) 131 135 036, 054, 059, 063, 064, 070, 074, 086, 088, 089, 093, 096·1–096·6, 096·8, 096·9, 122, 132–134, 136–138	Leptospirosis icterohaemorrhagica (Weil's disease) Yaws Chickenpox Dengue Trachoma Sandfly fever Leishmaniasis Trypanosomiasis gambiensis Trypanosomiasis rhodesiensis Other and unspecified Trypanosomiasis Dermatophytosis Scabies All other diseases classified as infective and parasitic.	1 1	35 1 16	12 3 1 6	 47 4 1 * 2 24	1
A A A A A A A A A A A A A A A A A A A	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	140–148 150 151 152, 153 154 161 162, 163 170 171 172–174 177 190, 191 196, 197 155, 160, 164, 165, 175, 176, 178–181, 192– 195, 198, 199 204 200–203 210–239	II—NEOPLASMS. Malignant neoplasm of buccal cavity and pharynx	1 1 2 2 4 7 1 7	3 4 3 3 8 5 2 2 8 6 4 26	3 1 1 1 7 2 9 1 2 2 2 2 4 1 5 3 2 2 2 4 1 1 10 3 5 3 32 5	7 3 13 14 5 4 2 10 13 12 7 13 10 24 6 7 70	2 1 4 2 1 1 2 2 1 1 2 10 5
A A A A	61 62 63 64 (a) (b) (c) (d) 65 (a) (b) (c) 66 (a) (b)	250, 251 252 260 280 281 282 283–286 290 291 292, 293 241 240, 242–245, 253, 254, 270- 277, 287–289, 294–299	III—ALLERGIC, ENDOCRINE SYSTEM, METABOLIC AND NUTRITIONAL DISEASES. IV—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS. Nontoxic goitre	 4 2 5 8	4 7 10 29 11 6 22	8 4 84 2 2 16 2 26 62 1 77 99 3	12 12 100 2 4 47 28 79 83 132	 10 3 4 1 3 2
A A A	67 68 69	300–309 310–324,326 325	V—MENTAL, PSYCHONEUROTIC AND PERSONALITY DISORDERS. Psychoses	5 9 1	7 13	18 1 31 4 5	31 57 6	

Intermediate List Number	Detailed List Numbers	Cause Groups	Euro.	Fijian	Indian	Other	Totals	Deaths
A 70 A 71 A 72 A 73 A 74 A 75 A 76 A 77 (a) (b) (c) A 78 (a)	330–334 340 345 353 370–379 385 387 390 391–393 394 380–384, 386, 388, 389 341, 344 350–352, 360–369 395–398	VI—DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS. Vascular lesions affecting central nervous system	14 1 3 2 1 2 6 8	8 6 4 39 16 3 4 18 31 28	26 12 11 37 64 7 3 33 5 34	4 1 3 7 1 14	52 20 18 81 88 12 7 57 37 84	19 10 3 1
A 79 A 80 A 81 A 82 A 83 A 84 A 85 A 86	400-402 410-416 420-422 430-434 440-443 444-447 450-456 460-468	VII—DISEASES OF THE CIRCULATORY SYSTEM. Rheumatic fever	1 1 8 8 8 8 5 2 15	13 5 2 - 16 15 4 5 19	59 43 47 90 33 16 5 66	5 1 5	78 49 57 117 63 26 12 105	 9 35 10 7 10 2 7
A 87 A 88 A 89 A 90 A 91 A 92 A 93 A 94 A 95 A 96 A 97 (a)	470–475 480–483 490 491 492, 493 500 501, 502 510 518, 521 519 523 511–517, 520–522, 524–527	VIII—DISEASES OF THE RESPIRATORY SYSTEM. Acute upper respiratory infections Influenza	14 35 3 7 1 26 2 4 	36 175 94 95 18 63 14 6 5 12	50 168 84 106 13 71 37 13 6 13 	8 24 12 7 1 8 4 1 	108 402 193 215 33 168 61 24 11 25 	3 4 37 1
A 98 (a) (b) A 99 A 100 A 101 A 102 A 103 A 104 (a) (b) (c) A 105 A 106 A 107	530 531–535 540 541 543 550–553 560, 561, 570 571·1 572 581 584, 585 536–539 542, 544, 545, 573–580, 582, 583, 586, 587	IX—DISEASES OF THE DIGESTIVE SYSTEM. Dental Caries	 1 6 4 10 26 17 4 15 3 2 6	4 18 4 6 24 30 35 35 56 5 5 2	5 27 18 22 68 131 38 49 120 5 9 19	3 17 2 4 16 7 5 8 	12 63 28 34 106 203 97 93 199 13 16 27	 3 6 2 5 15 2 1 6 1

	ermediate t Number	Detailed List Numbers	° Cause Groups	Euro.	Fijian	Indian	Other	Totals	Deaths
A A A A A A	108 109 110 111 112 113 114 (a) (b) (c)	590 591–594 600 602, 604 610 620, 621 613 634 601, 603 605–609 611, 612 614–617 622–633 635–637	Acute nephritis	 11 9 3 7 5 22	5 12 54 2 5 10 29 30	24 35 102 37 23 16 15 61	 4 7 1 1 5	29 48 171 55 32 33 50 118	3 7 3 1 2 1
A A A A A	115 116 117 118 119 120 (a) (b)	640–641, 681, 682, 684 642, 652, 685, 686 643, 644 670–672 650 651 645–649 673–680 683, 687–689 660	XI—DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM. Sepsis of pregnancy, childbirth and the puerperium Toxaemias of pregnancy and the puerperium Haemorrhage of pregnancy and childbirth Abortion without mention of sepsis or toxaemia Abortion with sepsis Other complications of pregnancy, childbirth and the puerperium Delivery without complications XII—DISEASES OF THE SKIN AND CELLULAR	 5 4 14 3 30 46	10 7 14 36 3 76 172	26 69 40 83 16 320 469	1 1 11 19 4 14 29	37 82 69 152 26 440 716	5 4 7
A A A A A	121 122 123 124 125 126 (a) (b) (c)	690–698 720–725 726, 727 730 737, 745—749 715 700–714, 716 731–736, 738–744	XIII—DISEASES OF THE BONES AND ORGANS OF MOVEMENT. Infections of skin and subcutaneous tissue	60 8 5 2 1 19 10 9	244 43 10 44 3 21 23 28	249 68 32 24 6 19 26 25	35 10 1 1 6 4 3	588 129 47 71 11 65 63 65	 1 1
A A A	127 128 129	751 754 750, 752, 753, 755–759	XIV—CONGENITAL MALFORMATIONS Spina bifida and meningocele Congenital malformations of circulatory system All other congenital malformations	3	1 1 20	1 5 37	4	2 6 64	1 3 1
A A A A A	130 131 132 (a) (b) (c) 133 134 135	760, 761 762 764 765 763, 766–768 770 769, 771, 772 773, 776	XV—CERTAIN DISEASES OF EARLY INFANCY. Birth injuries		3 1 1 1 3 5	 2 4 5 11 22	1	3 3 5 1 8 17 25	1 2 1 1 6 20

Intermediate List Number	Detailed List Numbers	Cause Groups	Euro.	Fijian	Indian	Other	Total	Deaths
A 136 A 137 (a) (b) (c)	794 788·8 793 780–787 788·1–788·7 788·9, 789–792, 795	XVI—SYMPTOMS, SENILITY AND ILL-DEFINED CONDITIONS. Senility without mention of psychosis		3 50 247 14 112	6 33 333 37 365	 8 34 4 20	14 95 661 69 533	3 3 ···

"E" CODE—ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSE).

Intermediate List Number	Detailed List Numbers	Cause Groups.	Euro.	Fijian	Indian	Other	Totals	Deaths
AE 138	E810-E835	Motor vehicle accidents	1	5	18	5	29	1
AE 139	E800-E802 E840-E866	Other transport accidents		4	2		6	1
AE 140 AE 141	E870-E895 E900-E904	Accidental poisoning		2 12	11 21	2	15 38	1
AE 142	E912	Accidental falls		1	3		4	
AE 143 AE 144	E916 E917, E918	Accident caused by fire and explosion of combustible material Accident caused by hot substance, corrosive liquid, steam	2	11	13	1	27	• • •
AE 145	E919	and radiation		$\frac{2}{3}$	$\frac{1}{2}$	1	4 5	
AE 146 AE 147	E929 (a) E920	Accidental drowning and submersion Foreign body entering eye and adnexa		3	13 4	1	17 6	
AL 147	(b) E923 (e) E927	Foreign body entering other orifice		î	$\stackrel{\cdot}{2}$	1	4	
		Accidents caused by bites and stings of venomous animals and insects		2	1		3	
	(d) E928 (e) E910, E911	Other accidents caused by animals	• •		4	••	4	
	E913–E915 E921–E922	All other accidental causes	11	50	27	13	101	
	E924–E926 E930–E965							
AE 148 AE 149	E970-E979 E980-E985	Suicide and self-inflicted injury	• • •		• •	• •	• •	• • •
		(not in war)	1	4	16	1	22	
AE 150	E990-E999	Injury resulting from operations of war		1	• •		1	

"N"—ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS AND VIOLENCE (NATURE OF INJURY).

Intermediate List Number	Detailed List Numbers	Cause Groups	Euro.	Fijian	Indian	Other	Totals	Deaths
AN 138 AN 139 AN 140 AN 141 AN 142 AN 143 AN 144 AN 145 AN 146 AN 147 AN 148 AN 149 AN 150	N800-N804 N805-N809 N810-N829 N830-N839 N840-N848 N850-N856 N860-N869 N870-N908 N910-N929 N930-N936 N940-N949 N960-N979 N950-N959 N980-N999	Fracture of skull Fracture of spine and trunk Fracture of limbs Dislocation without fracture Sprains and strains of joints and adjacent muscle Head injury (excluding fracture) Internal injury of chest, abdomen and pelvis Laceration and open wounds Superficial injury, contusion and crushing with intact skin surface Effects of foreign body entering through orifice Burns Effects of poisons All other and unspecified effects of external causes	1 1 4 1 4 1 1 1 1 2	3 1 19 6 13 6 4 10 11 2 13 2	4 22 20 5 15 5 5 19 8 6 14 11 24	2 2 7 1 2 2 1 	10 6 50 13 34 14 11 30 24 9 31 15 39	1 1

APPENDIX XVIII

URBAN/TOWNSHIP/RURAL SANITARY DISTRICTS OF FIJI. REPORT OF HEALTH INSPECTORS FOR THE YEAR 1954.

Type of Premises,	etc.			Inspection	Re-inspec- tions	Total
House-to-house Inspection of Dis	strict			37,270	5,446	42,716
Investigation of Complaints, Nui		tc		1,296	575	1,871
New Building Sites—before appr				1,107	315	1,422
New buildings works in progress				2,775	1,200	3,975
Investigation of infectious diseas	e and dis	infecti	on	459	123	582
Shipping				246	40	286
Aircraft				417	18	435
Houses-let-as-lodgings and lodgings	ng houses	3		590	241	831
Factories and Workshops				358	146	504
Cemeteries				219	74	293
Schools				215	76	291
Checking sanitary services (A/Cs	. etc.)			241	54	295
Laundries	,,			316	203	519
Hairdressers, Chiropodists, etc.				692	371	1,063
Foodshops, foodstuffs, markets,				3,698	1,706	5,404
Eating houses and ice cream pre				334	716	2,050
Aerated water and ice factories				321	187	508
Kava saloons				131	79	210
Bakehouses				454	261	715
Slaughterhouses				154	118	272
Butchers shops				143	31	174
Food vehicles				357	193	550
Hawkers premises						
Shops other than food premises						
Dairies, hotel, boarding houses				18	2	20
Inspection of gang work				$\tilde{72}$		72
Sanitary survey of ships				32		32
Miscellaneous				229	164	393
inioccitaticous						
	*Total			53,144	12,339	65,483

2—Written Notices, Etc., Issued

Intimation Notices Served				 4,609
Statutory Notices Served				 414
Buildings Surveyed for Clos	ure or	Demoli	tion	 1,294
Closing Orders Served				 57
Demolition Orders Served				 42
Buildings Demolished after	service	of Ord	.ers—	
By Owners				 17
By Local Authority				 16

3—BUILDING APPLICATIONS DEALT WITH

		Number	Value
Applications in respect of New Buildings Applications in respect of Alterations and I Applications in respect of Septic Tanks .	 Repairs 	1,151 525 51	£1,797,455 81,905 4,230
Total		1,727	£1,883,590
Buldings Completed and Passed during year— Applications Outstanding in Register (wore end of year—	ear rk not co	 mpleted) a	. 748 t
New Buildings			. 1,553 . 120
Septic Tankss			. 37

4—Summary of Sanitary Improvements, etc. (all Types of Premises)

Items			Ordered	Completed *
Repairing of Buildings			314	221
Improvements to Lighting and Ventilation of Buildings.			280	218
Removal of Unauthorized Erections			165	82
Abatement of Overcrowding			222	117
New Privies (all types)			1,868	1,343
Repairing, Cleansing or Flyproofing of Privies			3,227	3,053
Filling in of Insanitary Privies			1,230	1,022
New Bathrooms or Washing Places			293	213
Repairing or Cleansing of Bathrooms or Washing Places			893	786
New Kitchens			209	150
Repairing or Cleansing of Kitchens			624	537
Provision of New Drains			825	609
Repairing or Cleansing of existing Drains			1,897	1,582
New Wells			249	1,773
Repairing or Improvement of Wells			612	436
New Water Tanks			45	32
Repairing, Screening or Cleansing of Water Tanks			294	253
Removal of Accumulations of Refuse, etc			4,288	3,410
Clearing of Overgrowth or Long Grass			4,452	3,188
Provision of Garbage Tins			1,291	905
Abatement of Nuisances from Animals or Poultry			1,544	712
Abatement of Mosquito Breeding			2,062	1,850
Cleansing of Food Premises			1,280	1,100
Structural Improvements to Food Premises			293	215
Cleansing of Food Vehicles			183	179
Improvements to Food Vehicles			83	67
Cleansing or Improvement of Hairdressers Premises			343	277
Cleansing or Improvement of Laundries			166	144
Cleansing or Improvement of Schools	٠		47	32
Cleansing or Improvement of Shipping			81	79
Impounding of Straying Cattle			27	24
Removal of Tins and Bottles			3	3
Miscellaneous		• •	74	74
Total			29,464	23,090

^{*} This column may include work completed during the month under review but ordered during previous months.

5—Mosquito Control

Premises Inspected for Mosquito	Larvae	 	1,009,481
Premises at which larvae found		 	2,167
Larval Index		 	21 per cent

6—Disinfection, Disinfestation and Fumigation

Type of premise		els			Number		
Overseas Vesse	el 🖊			H.C.N			15
,,				Aerosol Bomb .			24
Local Vessel				H.C.N			92
,,				Formalin Cyllin and	Zaldic	ide	7
				,,			103
				D.D.T			21
Aircraft .				Aerosol Bomb.			373
International	Deratiz	zation	Certi	ficates Issued			15
International !	Deratiz	zation	Exer	nption Certificates Is	sued		Nil

7—Anti-Rat Measures

Traps Set	• •	• •	• •	••	12,640
			Rattus Rattus	Rattus Norvegicus	Total
Rats Destoryed by Trappi	ing		700	1,192	1,892
Rats Destroyed by Fumig	ation—				
Overseas Shipping.			4	2	6
Local Shipping			77		77
Aircraft (give details)					
Rats submitted for Labora	atory				
Examination	• •			• •	78
Rats found infected					

8—Supervision of Labour Gangs, Etc.

Number of men employed, Clearing and Draining Work done, Loads of Refuse removed, etc—

Number of men employed	 	 827 men
Clearing and Draining work done	 	 1,500 acres
Loads of refuse removed	 	 9,434 loads
Latrine pans dealt with	 	 34,025

9—Food Inspection and Sampling

Unsound Foodstuffs Condemned and Destroyed—27,696 pounds (general).

Food and Water Samples taken—

Milk—Genuine	160	Fresh water (Bact.)	 179
Non Genuine	16	Aerated water	 4
Ice cream—Genuine	67	Water (chemical)	
Non Genuine	13	,	

10—LEGAL PROCEEDINGS

Defendants, Offences and Results of Action-

Public Health	ı Ordini	ance		Pure Food	Ordin	ance	
Cases			225	Cases			42
Convictions			203	Convictions			41
Penalties			£370 8s.	Penalties			£366

11—Remarks and Details of any other Special Works carried out during the month under Review

Sanitation Campaign

Squatting Slabs sold	 	 	452
Pedestal Slabs Sold		 	93

APPENDIX XIX

INTERNATIONAL AIRPORT—NADI

- 1. Dr. L. Hatcher was transferred to Nadi Airport on June 1st to replace Dr. D. Keating-Clay. Nursing Sister Cain proceeded on Overseas leave on December 31st and was replaced by Sister McEwan.
 - 2. Patients passing through Nadi Airport—
 - (1) One case of severe dysentery travelling between Canton Island and Auckland was off loaded and sent to Lautoka Hospital.
 - (2) One Fijian child with Congenital Heart Disease was sent from Fiji to Auckland.
 - (3) One child with Rheumatic Heart Disease passed through Nadi Airport in transit between the Cook Islands and New Zealand.
 - (4) Two passengers who were suspect smallpox contacts landed from Canton Island. The necessary precautions were taken and the passengers put under surveillance and they continued their journey to Suva.
 - 3. Vaccinations, inoculations and other work performed in 1954.

				European	Fijian and others	Total
Smallpox—Airpor	rt person	nel		152	459	667
	ngers arr		from			
ove	rseas			56		
T.A.B				15		15
A.T.S				44	78	122
Diphtheria and P	ertussis			39		39
Ante-Natal patien	nts seen			60		60
Infant Welfare.				237		237
Minor operations				35		35

Medical Examinations for Extension of Tour for Civil Aeronautics Board—18 of which include eight officers.

4. A Medical and Dental building is being built at the airport by the South Pacific Air Transport Council for the use of Europeans. Its completion has been delayed because of the shortage of building material. The Dental Officer will be supplied by New Zealand.

AIRCRAFT CRASH PRECAUTIONS

- 5. In August 1954 new Crash Orders were outlined by a committee of the Airport Manager, Chief Clerk, Regional Traffic, Representative of each Airline, Medical Officer, Police Inspector and Firemaster. The object of this was to make use of more people if a crash occurred. A member of the Customs Department was appointed as the Co-ordinating Officer. Certain officers were appointed to assist in setting up the Casualty Clearing Station. It was decided to use one of the store rooms as a mortuary, this building had been the cold room. A crash practice was held which was very satisfactory and as a result of it no changes will be made in the crash procedure.
- 6. Some alterations were made to the Casualty Clearing Station. A telephone was installed which is on the same line as the Dispensary. Alterations were made so that the toilets and bathrooms could be reached only from the main room. Yale locks were put on the doors and a master key is kept in a glass cupboard in the Customs Office. Extra mattresses and linen have been supplied by the Civil Aeronautics Board.
- 7. There are eight ex-nurses who have volunteered to help in the Casualty Clearing Station. A course of six lectures was given to them by the Medical Officer on the treatment of injuries. The Neilson method of resuscitation has been adopted instead of the Schafer method.

THE FOLLOWING TABLE INDICATES THE NUMBER OF PATIENTS SEEN IN THE NADI AIRPORT DISPENSARY-1954.

W la	Civil Air	Fiji Govern-		European Employees				Patients	. Others		Fijian
Month	Board	ment	P.A.A.	C.P.A.	B.C.P.A.	QANTAS	TEAL.	In Homes	Patients	Total	and Others
January	202 211 178 144 147 154 165 182 182 147 174 198	12 2 6 5 10 30 17 24 15 16 16	25 37 13 28 16 38 58 51 20 26 17 25	2 2 1 4 3 2 1	28 31 14 17 	16 16 20 29 26 25 34 57	 5 6 17 7 3 3 3	11 29 9 10 11 12 14 28 22 13 5	15 7 8 16 20 12 3 8 9 4 9 28	293 301 228 222 211 251 299 332 290 238 259 336	549 691 743 466 659 546 652 573 552 661 775 700
Total	2,084	153	354	15	90	223	44	173	139	3,260	7,567

"Other Patients" include passengers and visitors to the base.

APPENDIX XX

The following meteorological reports for the year 1954 have been supplied by the Meteorological Office.

METEOROLOGICAL REPORTS FOR 1954.

Laucala Ba	C.		Suva			
DAUCALA DA	r.	1954	Rainfall—			1954
Rainfall— Total		149·39″	Total Normal for 63/64			167·70″ 123·43″
Departure from normal— Wet days (0.01" or more)		267	Departure from normal Wet days (0.01" or more).	• •	••	+44.27'' 216
Wettest day— Jan. 15th		4.53″	Wettest day on— 23rd Aug.			5.50″
Temperatures—						
Mean Maximum		82·4°F.	Temperatures—			
Highest recorded		$90.9^{\circ}\mathrm{F.}$ on	Mean Maximum			83·2°F.
		Dec. 22	Highest recorded			94.5°F. on
Mean Minimum		72·3°F.				Dec. 26
Lowest Minimum		62·6°F. on	Mean Minimum			72·5°F.
		Aug. 23	Lowest Minimum			62·5°F. on
Mean Temperature ½ (Max + Mir	1)	77·4°F.			• •	Aug. 28
Mean Temperature at 9 a.m.		78·3°F.	Mean Temperature ½ (Max +	Min)		77·8°F.
II			Departure from normal			$+0.7^{\circ}$ F.
Humidity— Mean Humidity at 9 a.m.		83.9 %	Mean Temperature at 9 a.m.			78·9°F.
D:1.6 1:			Humidity—			
Bright Sunshine—		1690.3	Mean Humidity 9 a.m			80.7 %
Total hours		1689.3				00.70
Mean Daily		4·6 hrs.				

Notes

The year 1954, which had an excess rainfall of 44·27 ins. was the 5th wettest recorded in Suva. Previous records being as follows:—

1949	 	220·54 ins	1906	 169·62 ins.
1921	 	170·74 ins.	1924	 168·80 ins.

Most months generally regarded as "dry" were very wet during 1954. The total rainfall for the period from May to October was 71.46 ins., compared with an average of 48.60 ins. for the period.

On the whole the year was rather warm, particularly September and December which had mean temperatures of just over 2·0°F. above normal. The highest temperature 94·5°F. on December 26 was the highest since January 14th 1949 when it reached 94·9°F.

The prevailing wind direction was East, with a mean speed of 7.5 knots, and the highest gust recorded was 46 knots from ENE. on January 15th. On January 14th and 15th, the only tropical storm to threaten the Group approached from NE. and passed a short distance north of the main islands, and continued SSW. to SW. beyond the Yasawas.

